CITY & GUILDS LEVEL 2 AWARD IN THE SAFE APPLICATION OF PESTICIDES USING SPECIALIST EQUIPMENT (PASC) 601/5153/5



QUALIFICATION GUIDANCE Version 1.3 April 2022

Independently Assessed

Essential Qualification Information

Not to be used by the Candidate during Assessment

You will require some of this information to accurately complete the Record of Assessment (ROA)

Qualification Group No	0 2 1 6	Pesticides
Qualification Programme No	0 2 1 6 - 6 2	L2 Award in the Safe Use of Pesticides Using Specialist Equipment (PASC)
Unit(s)	2 3 1	Operating Automated Equipment for Applying Pesticides (D/505/7793)
	2 3 2	Operation of Mounted, Trailed or Self Propelled Electrostatic Charged Sprayers for applying Pesticides to Crops (A/505/7803)
	2 3 3	Operation of Pesticide Applicators attached to Cultivating or Planting Equipment (F/505/7804)
	2 3 4	Operation of a Sprayer Mounted on a Train fitted with Hydraulic Nozzles for Applying Pesticides (K/505/7814)
	2 3 5	Operation of a Bankside Sprayer Mounted on a Train fitted with Hydraulic Nozzles for applying Pesticides (L/505/7837)
	2 3 6	Operating Other Specialist Equipment for Applying Pesticides (R/505/7838)
Guided Learning	2 3 1	GLH 28 (Credit Value 3)
Hours (GLH)	2 3 2	GLH 28 (Credit Value 3)
	2 3 3	GLH 28 (Credit Value 3)
	2 3 4 2 3 5	GLH 28 (Credit Value 3)
	2 3 6	GLH 28 (Credit Value 3)
		GLH 28 (Credit Value 3)

Recommended Assessment Duration		1.5 – 3 hours per Candidate
Pre-Requisite Units	1 0 1	Principles of Safe Handling and Application of Pesticides (PA1) GLH 26 (Credit Value 3)
Guided Learning Hours (GLH)		54 Hours
Total Qualification Time (TQT)		60 Hours

Version and date	Change detail	Section
1.2 November 2017	Added TQT details Deleted QCF / Learning Time	Qualification at a glance, Structure
		Throughout
1.3 April 2022	GLH and TQT clarified and highlighted	Qualification at a glance

City & Guilds Level 2 Award in the Safe Use of Pesticides Using Specialist Equipment (PASC) Qualification Guidance

Introduction

The scheme will be administered by City & Guilds

City & Guilds will:

Publish - Scheme regulations - Qualification guidance - Training material - Trainers support material Approve Centres to co-ordinate and administer the scheme Set standards for the training of Verifiers and Assessors Recruit, train and deploy Verifiers Manage verification Issue Certificates to successful Candidates

The Qualification

The qualification will be awarded to Candidates who achieve the required level of competence in the units to which their Certificate relates.

Training

The Code of Practice for Using Plant Protection Products states "By Law everyone who uses pesticides professionally must have received adequate training in using pesticides safely". Candidates are strongly advised to ensure that they will be able to meet the standards required in the assessment.

Total Qualification Time

Total Qualification Time (TQT) is the total amount of time, in hours, expected to be spent by a Learner to achieve a qualification. It includes both guided learning hours (which are listed separately) and hours spent in preparation, study and assessment.

Access to Assessment

Assessment Centres will be responsible for arranging the assessment on behalf of the Candidate.

The minimum age limit for Candidates taking Certificates of Competence is 16 years. There is no upper age limit.

The assessment is divided in to six optional units:

Unit 231		(Optional)	(Credit Value 3)	(Print pages 7 – 11 plus 42)
	Outcome 1. Outcome 2. Outcome 3. Outcome 4. Outcome 5. Outcome 6.	Be able to assess Be able to read an Be able to prepare Be able to operate	the environmental factors reland interpret product information	robotic equipment (Criteria 4.1 – 4.7) riteria 5.1 – 5.4)
Unit 232		(Optional)	(Credit Value 3)	(Print pages 12 – 18 plus 42)
	Outcome 1. Outcome 2. Outcome 3. Outcome 4. Outcome 5. Outcome 6.	Be able to assess Be able to read an Be able to prepare Be able to operate		Criteria 4.1 – 4.5) riteria 5.1 – 5.4)
Unit 233		(Optional)	(Credit Value 3)	(Print pages 19 – 24 plus 42)
	Outcome 1. Outcome 2. Outcome 3. Outcome 4. Outcome 5. Outcome 6.	Be able to assess Be able to read an Be able to prepare Be able to operate) (Criteria 4.1 – 4.4) – 5.4)
Unit 234		(Optional)	(Credit Value 3)	(Print pages 25 – 30 plus 42)
	Outcome 1. Outcome 2. Outcome 3. Outcome 4. Outcome 5. Outcome 6.	Be able to assess Be able to read an Be able to prepare Be able to operate		Criteria 4.1 – 4.4) riteria 5.1 – 5.4)

Unit 235		(Optional)	(Credit Value 3)	(Print pages 31 – 36 plus 42)
	Outcome 1. Outcome 2. Outcome 3. Outcome 4. Outcome 5. Outcome 6.	Be able to ass Be able to rea Be able to pre Be able to ope	ess the environmental facto d and interpret product infor pare and calibrate the applic erate the application equipm	cator (Criteria 4.1 – 4.4)
Unit 236		(Optional)	(Credit Value 3)	(Print pages 37 – 42)
	Outcome 1. Outcome 2. Outcome 3. Outcome 4. Outcome 5. Outcome 6.	Be able to ass Be able to rea Be able to pre Be able to ope	ess the environmental facto d and interpret product infor pare and calibrate the applic erate the application equipm	cator (Criteria 4.1 – 4.7)

Candidates must successfully achieve all assessment activities in their chosen unit(s).

There are no endorsements for this Award.

Quality Assurance

Verification is a process of monitoring assessment; it is an essential check to confirm that the assessment procedures are being carried out in the way City & Guilds has specified. The overall aim of Verification is to establish a system of quality assurance that is acceptable in terms of both credibility and cost effectiveness.

Approved Assessors will be subject to a regular visit by a Verifier at a time when assessments are being undertaken.

Documents completed by the Assessor may be inspected by a Centre appointed Internal Verifier and a City & Guilds approved Verifier at any time.

Compliance with the verification requirements is a pre-requisite for Assessors remaining on the list of approved Assessors.

After assessment has been completed the Qualification Guidance is to be retained by the Assessor for 12 months and is to be made available for inspection by a Centre appointed Internal Verifier, a City & Guilds approved Verifier or when a centre visit takes place by a Quality Systems Consultant (QSC).

Performance Evaluation

The result of each assessment activity is evaluated against the following criteria:

- M = Met Meets or exceeds the assessment criteria by displaying a level of practical performance and/or underpinning knowledge. If the Criterion has been MET, a tick \square is to be put in the box provided in the bottom right-hand column of each section.
- NM = Not Met Does not satisfy the requirements of the assessment criteria, being unable to perform the practical task satisfactorily or safely or having insufficient underpinning knowledge. If the Criterion is NOT MET, a cross ⊠ is to be put in the box provided in the bottom right-hand column of each section.

Appeals and Equal Opportunities

Centres must have their own auditable, appeals procedures. If a Candidate is not satisfied with the examination conditions or a Candidate feels the opportunity for examination is being denied, the Centre Manager should, in the first instance, address the problem. If, however the problem cannot be resolved, City & Guilds will arbitrate and a Principal Verifier may be approached to offer independent advice. All appeals must be clearly documented by the Centre Manager and made available to the Principal Verifier or City & Guilds if advice is required.

Should occasions arise when Centres are not satisfied with any aspect of the verification process, they should contact the Quality Assurance Manager at City & Guilds NPTC, Building 500, Abbey Park, Stareton, Warwickshire, CV8 2LY. Telephone 024 7685 7300

Access to the qualification is open to all, irrespective of gender, race, creed or special needs. Subject to H&S restrictions the Centre Manager should ensure that no learner is subjected to unfair discrimination on any grounds in relation to access to assessment and to the fairness of the assessment. QCA requires City & Guilds to monitor centres to check whether equal opportunities policies are being adhered to.

Validation of Equipment

All equipment being used for this assessment must comply with the relevant requirements of the Provision and Use of Work Equipment Regulations (PUWER) 1998.

Vehicles must comply with Department of Transport and Road Traffic Acts where relevant.

Any machinery/equipment complying with current legal requirements is acceptable for the assessment, provided it is suitably equipped for **all** assessment activities to be carried out.

Summary of responsibilities in the assessment process

Centre responsibilities	Candidate responsibilities	Assessor responsibilities
A suitable site is made available for the assessment to take place		Ensuring that the site provided is suitable for the assessment to take place
Machinery, equipment and materials are available to enable assessment of all the activities to take place	To be familiar with the machinery/equipment being used for the assessment	Ensuring that the machinery, equipment and materials provided satisfy the assessment requirements
	To bring appropriate Personal Protective Equipment (PPE) to the assessment	Ensuring that candidate's PPE complies with the requirements of the assessment
	To bring relevant training materials (including calibration sheet if applicable)	
	To bring a product label appropriate for the assessment	To ensure that the product label is appropriate for the assessment (or provide a suitable alternative)

Safe Practice

The Assessor and Candidate must wear Personal Protective Equipment (PPE) when appropriate.

The Assessor must ensure that a Site Specific Risk Assessment is carried out.

All equipment must be operated in such a way that the Candidate, Assessor, other persons and the environment are not endangered. Failure to operate safely and comply with these requirements will result in the Candidate not meeting the required standard.

A breach of Health and Safety that puts any person at risk during the assessment process will result in the assessment being terminated and the Candidate not meeting the required standard. The Assessor may stop the assessment on the grounds of safety at any time at their discretion.

Before any assessments take place, Assessor & Candidate should to be aware of any local or national issues to prevent breach of security, safety and any cross contamination or damage to the local environment.

Information

During the assessment the candidate may refer to operator manuals, training materials or safety publications, but they <u>may not</u> refer to the Qualification Guidance Document.

Questions should be related to the background or employment aspirations of the candidate.

Candidates who undertake this assessment and have met the requirements are reminded of their legal obligation to receive/undertake appropriate additional training in the use of any equipment that differs from that used during the assessment, but which they are nevertheless qualified to use.

Assessment Guidance for the Assessor

This qualification can only be assessed by an Assessor who is suitably qualified and meets the requirements of the awarding body. The Assessor must be independent **and cannot have been involved with the training of the Candidate**. Please see City & Guilds Centre Manual for guidance.

The Candidate is to be notified of the place and time of assessment and when formal assessment commences and ceases.

Assessors are reminded that assessment is a formal process and that assessment must be carried out using this Qualification Guidance. All relevant assessment criteria must be assessed as specified in the Qualification Guidance. Assessment will be carried out by direct observation and by oral questioning of the Candidate. Where a specific number of responses are required these may include other suitable answers not specified if they are deemed to be correct by the Assessor. The performance of the Candidate is to be recorded on the Qualification Guidance as directed by completing the tick boxes. Space has been provided on the Qualification Guidance for the person assessing to record relevant information which can be utilised to provide feedback to the Candidate. After assessment has been completed the Qualification Guidance document is to be retained by the assessor and provided if required.

Assessment Guidance for the Candidate

A list of registered Assessment Centres is available from City & Guilds NPTC. (www.nptc.org.uk)

Assessment is a process by which it is confirmed that the candidate is competent in the unit(s) within the award to which the assessment relates. It is the process of collecting evidence about the candidate's capabilities and judging whether that evidence is sufficient to attribute competence.

The Candidate must be registered through the City & Guilds approved Assessment Centre for this qualification prior to the assessment.

The results of the assessment will be recorded on the Record of Assessment form (ROA).

The Qualification Guidance contains criteria relating to:

- Observation of practical performance
- Assessment of underpinning knowledge

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City & Guilds is a registered charity established to promote education and training

Unit 1 – Operating Automated Equipment for Applying Pesticides

Candidate	Α	Name:		Date:		Start Time:	Dura	atior) :		
Candidate	Candidate B Name:			Date:		Start Time:	Duration:				
Candidate	C	Name:		Date:		Start Time:	Dura	atior	n:		
Candidate	D	Name:		Date:		Start Time:	Dura	atior	ו:		
CRITERIA		ASSESSMENT	ASSESSOR			SSESSMENT		_	AND		
NUMBER	Des	CRITERIA cribe the legal	GUIDANCE Candidate to describe two	Ma	y include:	ACTIVITIES		Α	В	С	D
Unit 231 1.1	requ app auto	virements relating to ying pesticides using mated or robotic pment	operator's obligations in terms of legal requirements	•	all required guar complies with lea comply with The (Sustainable Use the operator must	ds are in place and equipm gal requirements Plant Protection Products e) Regulations 2012 st hold the appropriate ne equipment they are using Met√ Not	g				
	Dee	cribe how to apply	Candidate to describe or	A Mo	y include:	Welv Not					
Unit 231 1.2	pest auto equi	icides safely using mated or robotic pment following stry best practice	operator safety regulation terms of using automated robotic equipment	in 🖕	comply with Pes adopt industry b be aware of any	ticide Codes of Practice est practice safety implications impose sessment and comply with					
					requirements	Met √ Not	Met X				
	Ider	tify risks to the	Candidate to identify all	Ма	y include:						
Unit 231 2.1	envi	ronment	relevant risks to the environment for the application site	• • •	ground condition water courses drains boreholes	s					
				• • •	wildlife non-target plants sensitive crops/a hedgerows						
				•	housing public access other risks partic						
	Evo	lain how to minimise	Candidate to explain how	to Evr	lanation may inclu	Met ✓ Not de the following points:	Met X				
Unit 231 2.2		s to the environment	minimise the risks identified		check and maint avoid spray drift avoid off target a observe buffer z comply with LEF inform neighbou erect warning sig	ain application rate application ones RAP requirements rs gns					
				•	environmental in appropriate timir	• •					
			Candidate to state the reason for minimising spray drift or off target application		avoidance of con environment	ntamination to people and t	he				
Continued			Candidate to check and comment on wind speed a direction	ind	use of anemome signs wind direction	eter at suitable height or vis	ible				

CRITERIA	ASSESSMENT	ASSESSOR	ASSESSMENT		AND		
NUMBER	CRITERIA	GUIDANCE	ACTIVITIES	Α	В	С	D
Cont		Candidate to state five factors that may affect spray	May include: wind speed and direction 				
		drift (if applicable)	wind speed and directionnozzle type and size				
Unit 231			 pressure 				
2.2			 forward speed 				
2.2			 nozzle height 				
			defective equipment				
			 suction effect of wind 				
			Met ✓ Not Met X				
	Read product information	The candidate is required to	May include the following:				
Unit 231		read and interpret the	 product name 				
	Interpret product	information on a product label	 active substance(s) (ingredient(s)) 				
3.1	information	and provide relevant information as requested by					
Unit 231		the Assessor	Important information:				
01111 251			field of use				
3.2		Note to the Assessor: A	crop/target				
		product label is required. It is expected that the candidate	maximum individual dose				
		will provide the product label	maximum total dose				
		The lebel provided must be	 maximum number of treatments 				
		The label provided must be for a currently approved	 specific product precautions/warnings 				
		product and appropriate to	 operator protection 				
		the candidates normal work	environmental protection				
		situation	 restrictions on use 				
		Note to the Candidate					
		(Assessor also to note): It is	Crop specific information:				
		acceptable for key information on the label to be	crop/target				
		highlighted for use during the	dose rate				
		assessment	water volume				
			• timing				
			Mixing and spraying:				
			 filling 				
			 reduced volume applications (if applicable) 				
			 recommended nozzles 				
			 recommended pressure 				
			 spray quality 				
			 additional label information 				
			compatibility				
			Met ✔ Not Met X				
	Identify the components &	Candidate to identify all	May include:				
Unit 231	controls on the equipment	components and controls	• tank				
4.4		relating to the applicator being used for the	• lid				
4.1		assessment	• filters				
			pipe work				
			• pump				
			pressure control				
			• nozzles				
			pressure gauge				
			• connections				
			• seals				
			metering devices				
			mechanical/electrical controls				
			programming controls				
		Identify and explain the use	May include:				1
		of two types of nozzle, one of	 flat fan – fine/medium/coarse spray 				
		which could be that intended	 air inclusion – medium/coarse spray, low-drift 				
		for use (not applicable to Rotary Atomiser sprayers)	 cone – fine spray, good coverage 				
	i i i i i i i i i i i i i i i i i i i			1	I –	1	1 -
			Met ✓ Not Met X				

CRITERIA	ASSESSMENT	ASSESSOR	ASSESSMENT	_			
NUMBER	CRITERIA	GUIDANCE	ACTIVITIES May include:	Α	В	С	D
Unit 231	Carry out pre use checks to the prime mover (if	Candidate to carry out all pre-use checks relevant to	integrity of power source				
	applicable)	the prime mover being used	 fluid levels 				
4.2		for the assessment (if	 fail-safe systems 				
		applicable)	• Tail-sale systems				
			Met ✓ Not Met X				
11-11-004	Carry out pre-use checks	Candidate to carry out all	May include:				
Unit 231	to the application equipment	pre-use and operational checks to the	metering & delivery systems				
4.3	oderbruore	sprayer/applicator	drive systems				
			condition & tension of belts				
		Check security of attachment of applicator mechanisms	 boom suspension/break-back devices (if applicable) 				
			 security of attachment to prime mover 				
			Iubrication of components				
			 checking for leaks under pressure 				
			 any problems identified to be rectified if within 				
			operators level of responsibility and ability				
			Met ✓ Not Met X			\square	\square
	Calibrate the application	Candidate is required to	May include:				
Unit 231	equipment and record	calibrate the applicator and	accurate measurements				
	relevant data	record relevant data	accurate timings				
4.4		Note to the Assessor: Any	accurate calculations				
		appropriate method of	correct use of formulae				
		calibration may be used					
		State two pieces of	Calibration data may include:				
		calibration data that should	equipment settings used				
		be recorded	 product used for calibration 				
			application rate achieved				
	Magazina tha area to ha		Met ✓ Not Met X Must include:				
Unit 231	Measure the area to be treated	Candidate to measure the area, which should be typical	accurate measurements				
		of the candidate's normal					
4.5		work. The Assessor may assist under direction of the	Met ✓ Not Met X				
		candidate					
	Calculate the area to be	Candidate to calculate the	Must include:				
Unit 231	treated	area to be treated	accurate calculations				
4.6			Met ✓ Not Met X				
4.0							
Unit 231	Calculate the quantities of pesticide and water	Candidate to calculate quantities required for the	May include: • amount of water required for specified area				
	required for a specified	area calculated in 4.6	 amount of water required for specified area amount of pesticide required for specified area 				
4.7	area						
			Met ✓ Not Met X				
Unit 231	Measure the required	Candidate to measure and	To include all of the following:				
01111 231	quantities and add to the applicator, or attach	add quantities required for the area specified in 4.5 or	 correct selection and use of PPE/RPE (as required by the product label, COSHH/Risk 				
5.1	pesticide container	attach pesticide container	Assessment)				
		Nata This may be a	suitable site selected				
		Note: This may be a simulated pesticide	fill following product recommendations and				
		product	approved procedures				
			correct use of water supply				
			accurate measurement of water				
			accurate measurement of pesticide				
			avoidance of spillage				
			Or attach posticide container				
			attach pesticide container				
			Met ✓ Not Met X				

Unit 231 5.2 Demonstrate splication procedures Concludes to apply periodic to treat specified area and accurate application procedures To include: to treat specified area and accurate application procedures Image: Concentrate application and accurate application procedures Unit 231 5.3 Corry out all accivities and the environment Note to the Assessor: the candidate has carried out all activities protecting human health and the environment To include: the candidate has carried out all activities protecting human health and the environment To include: the candidate has carried out all activities protecting human health and the environment To include: the candidate has carried out all activities protecting human health and the environment To include: the candidate has carried out all activities protecting human health and the environment To include: the candidate has carried out all activities protecting human health and the environment To include: the candidate is required to complete a treatment forcoit supplied by the Assessor (or supplied in socry strange until disposal (or include is to explain fo	CRITERIA	ASSESSMENT	ASSESSOR	ASSESSMENT				
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Unit 231 Complete a treatment neord Complete a treatm								
Unit 23 5.3 Carry out all activities protecting turnan health and the environment Note to the Assessor: Assessor to be satisfied that the cardidate has cardido to approprime solution of genoral injury and containing protecting turnan health and the environment Note to the Assessor: To inducts: To inducts: Protecting turnan health and the environment To inducts: Protecting turnan health and the environment To inducts: Protecting turnan health and the environment To inducts: Protecting turnan health and the environment To inducts: Protecting turnan health and the environment turocot must heassessor: Tho environment turnan health and the enviro				5				
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Unit 231 protecting human health at the environment envir		Carry out all activities	Note to the Assessor:					
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unit 231 Complete a treatment Candidate is required to dealing virtual explaint ore methods of dealing virtual explaint ore explaint ore methods of dealing virtual explaint ore methods of dealing virtual explaint ore e								
unit 231 Complete a treatment record must be record must be:			environment	 prevention of public/bystander contamination 				
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Unit 231 Complete a treatment record Candidate is required to complete a treatment record must be: complete a treatment record legible (if handwriten) legible								
Unit 231 Complete a treatment Candidate is required to complete a treatment record Complete a treatment record must be: I I I 5.4 Note to the Assessor: The approved by the Assessor (in supplied by the Assessor (in recessary) Image: Complete a treatment record must be:				 avoidance of off target application 				
Unit 231 Complete a treatment record I <thi< th=""> I I</thi<>							_	
Unit 231 record Candidate is required to complete a treatment record Completion of the treatment record must be: accurate Image: Completion of the treatment record must b				material				
Unit 231 record complete a treatment record - accurate -				Met ✓ Not Met X				
5.4 Note to the Assessor: The treatment record must be approved by the Assessor (in supplied by the Assessor (in rectum to temporary mobile store supplied eard dispose of waste material dispose of waste material Explain how to manage Candidate to explain one methods of dealing with surplus concentrate pesticide Explain how to manage Candidate to explain two methods of dealing with surplus concentrate pesticide Containers: the place din secure storage until disposal collected by a licensed waste disposal contractor placed in secure storage until disposal collected by a licensed waste disposal contractor placed in secure storage until disposal collected by a licensed waste disposal contractor placed in secure storage until disposal collected by a licensed waste disposal contractor placed in secure storage until disposal collected by a licensed waste disposal contractor placed in secure storage until disposal collected by a licensed waste disposal contractor back on to target as long as it is below the maximum dose rate collected by a licensed waste disposal contractor collected by a licensed				Completion of the treatment record must be:				
5.4 Note to the Assessor in the transmert record must be approved by the Assessor in necessary) Met ✓ Not Met X □ <th>Unit 231</th> <th>record</th> <th>complete a treatment record</th> <th>accurate</th> <th></th> <th></th> <th></th> <th></th>	Unit 231	record	complete a treatment record	accurate				
Line Iteratment record must be assessor of supplied by the Assessor of supplied by the Assessor of necessary) Met ✓ Not Met X I <thi< th=""> <thi< th=""> I</thi<></thi<>	54		Note to the Assessor: The	 legible (if handwritten) 				
Unit 231 dispose of waste material method of dealing with surplus concentrate pesticide • return to temporary mobile store • • • • • • • • • • • • • • • • • • •	0.4		treatment record must be approved by the Assessor (or supplied by the Assessor if	Met ✓ Not Met X				
6.1 dispose of waste material surplus concentrate pesticide return to fixed store Image: Imag		Explain how to manage		Explanation may include:				
6.1 Candidate to explain two methods of dealing with waste containers or packaging Containers: Containers:<	Unit 231			 return to temporary mobile store 				
Unit 231 Explain how to clean and decontaminate the application equipment Candidate to explain four factors that need to be considered when cleaning the application equipment Candidate to explain four factors that need to be considered when cleaning the application equipment Candidate to explain four factors that need to be considered when cleaning the application equipment Candidate to explain four factors that need to be considered when cleaning the application equipment May include: Image: Candidate to explain four factors that need to be considered when cleaning the application equipment May include: Image: Candidate to explain four factors that need to be considered when cleaning the application equipment Select and use correct PPE/RPE Image: Candidate to explain four factors that need to be considered when cleaning the application equipment 6.2 Explain how to clean and decontaminate the application equipment Candidate to explain four factors that need to be considered when cleaning the application equipment Select and use correct PPE/RPE Image: Candidate to explain four factors that need to be considered when cleaning the application equipment Image: Candidate to explain four factors that need to be considered when cleaning the application equipment Image: Candidate to explain four factors that need to be considered when cleaning the application equipment Image: Candidate to explain four factors that need to be considered when cleaning the application equipment Image: Candidate to explain four factors that need to be considered when cleaning the application equipment Image: Candidate to explain four factors that need to be considered when cleaning	61	dispose of waste material	surplus concentrate pesticide	return to fixed store				
Unit 231 Explain how to clean and decontaminate the application equipment Candidate to explain four factors that need to be considered when cleaning the application equipment Image: Candidate to explain four factors that need to be considered when cleaning the application equipment Image: Candidate to explain four factors that need to be considered when cleaning the application equipment Image: Candidate to explain four factors that need to be considered when cleaning the application equipment Image: Candidate to explain four factors that need to be considered when cleaning the application equipment Image: Candidate to explain four factors that need to be considered when cleaning the application equipment Image: Candidate to explain four factors that need to be considered when cleaning the application equipment Image: Candidate to explain four factors that need to be considered when cleaning the application equipment Image: Candidate to explain four factors that need to be considered when cleaning the application equipment Image: Candidate to explain four factors that need to be considered when cleaning the application equipment Image: Candidate to explain four factors that need to be considered when cleaning the application equipment Image: Candidate to explain four factors that need to be considered when cleaning the application equipment Image: Candidate to explain four factors that need to be considered when cleaning the application equipment Image: Candidate to explain four factors that need to be considered when cleaning the application equipment Image: Candidate to explain four factors that need to be considered when cleaning the application equipment Image: Candidate to explain four factors that need to be considered when	0.1		Candidate to explain two	Containers				
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Unit 231 Explain how to clean and application equipment Candidate to explain four factors that need to be considered when cleaning the applicable, the prime mover May include: Image: 1 minor the applicator following product information recommendations Image: 1 minor the applicator following product information recommendations Image: 1 minor the applicator following good practice is safe procedures followed Image: 1 minor the applicator following good practice is safe procedures followed Image: 1 minor the applicator following good practice is safe procedures followed Image: 1 minor the appropriate sile of cleaning the applicator following good practice is safe procedures followed Image: 1 minor the appropriate sile of cleaning the applicator following good practice is safe procedures followed Image: 1 minor the appropriate sile of cleaning the applicator following good practice is safe procedures followed Image: 1 minor the appropriate sile of cleaning the applicator following good practice is safe procedures followed Image: 1 minor the appropriate sile of cleaning the applicator following good practice is safe procedures followed Image: 1 minor the appropriate sile of cleaning the applicator following good practice is safe procedures followed Image: 1 minor the appropriate sile of cleaning the applicator following good practice is safe procedures followed Image: 1 minor the appropriate sile of cleaning the applicator following good practice is safe procedures followed Image: 1 minor the appropriate sile of cleaning the applicator following good practice is safe procedures followed Image: 1 minor the applicator following good practice is safe procedures followed Image: 1 minor the applicator following			packaging					
Unit 231 Explain how to clean and decontaminate the application equipment Candidate to explain four factors that need to be contaminate the application equipment and, if applicable, the prime mover May include: Image: Candidate to explain four factors following or obtain the application equipment and appropriate site for cleaning the application equipment and prime mover May include: Image: Candidate to explain four factors following or obtain the application equipment and prime mover May include: Image: Candidate to explain four factors following or obtain the application equipment and prime mover May include: Image: Candidate to explain four factors following or obtain four factors following followi								
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Unit 231 Explain how to clean and decontaminate the application equipment Candidate to explain four factors that need to be considered when cleaning the application equipment and, if applicable, the prime mover May include: Image: safe disposal of contaminate washings in an appropriate manner following good practice Image: safe disposal of contaminate washings in an appropriate manner following good practice Image: safe disposal of contaminate washings in an appropriate manner following good practice Image: safe disposal of contaminate washings in an appropriate manner following good practice Image: safe disposal of contaminate washings in an appropriate manner following good practice Image: safe disposal of contaminate washings in an appropriate manner following good practice Image: safe disposal of contaminate washings in an appropriate manner following good practice Image: safe disposal of contaminate washings in an appropriate manner following good practice Image: safe disposal of contaminate washings in an appropriate manner following good practice Image: safe disposal of contaminate washings in an appropriate manner following good practice Image: safe disposal of contaminate washings in an appropriate manner following good practice Image: safe disposal of contaminate washings in an appropriate manner following good practice Image: safe disposal of contaminate washings in an appropriate manner following good practice Image: safe disposal of contaminate washings in an appropriate manner following good practice Image: safe disposal of contaminate washings in an appropriate manner following good practice Image: safe disposal of contaminate washings in an appropriate manner following good practice <th></th> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								
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Unit 231 decontaminate the application equipment factors that need to be considered when cleaning the application equipment and, if applicable, the prime mover • select and use correct PPE/RPE • • select and use correct PPE/RPE 6.2 • select and use correct PPE/RPE • • • select and use correct PPE/RPE • • • • • • • • • • • • • • • • • • •								
6.2 application equipment considered when cleaning the application equipment and, if applicable, the prime mover select and use context in Link L =	Unit 231		-					
applicable, the prime mover applicable, the prime mover triple rinse the applicator following product information recommendations through flushing of system safe disposal of contaminated washings in an appropriate manner following good practice safe procedures followed	6.2	application equipment	considered when cleaning the	• selection of an appropriate site for cleaning the				
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Met 🗸 Not Met X			1	• acts measures followed				
				 sale procedures followed 				

CRITERIA	ASSESSMENT	ASSESSOR	ASSESSMENT	C	AND	IDA ⁻	Ē
NUMBER	CRITERIA	GUIDANCE	ACTIVITIES	Α	В	С	D
	Describe the storage	Candidate to describe three	May include:				
Unit 231	requirements for the	factors to consider prior to	de-pressurisation				
6.3	application equipment	storing the sprayer/applicator	• ensure the application equipment is clean and dry				
0.3			 inspect for wear or damage 				
			repair or notify supervisor if not within operators				
			level of responsibility and ability				
			Iubricate if required				
			 frost protection measures implemented 				
			 nozzles and filters removed prior to freezing 				
			conditions				
			 store in a secure area 				
			 isolation of any electrical controls 				
			 store under cover and out of direct sunlight 				
			Met ✓ Not Met X				

Unit 232 – Operation of Mounted, Trailed or Self Propelled Electrostatic Charged Sprayers for applying Pesticides to Crops

Candidate A	Name:	Date:	Start Time:	Duration:
Candidate B	Name:	Date:	Start Time:	Duration:
Candidate C	Name:	Date:	Start Time:	Duration:
Candidate D	Name:	Date:	Start Time:	Duration:

Candidate	D Name:		Date:	Start Time:	Duratio	n:		
CRITERIA	ASSESSMENT	ASSESSOR		ASSESSMENT	C	AND	DIDA	ΓЕ
NUMBER	CRITERIA	GUIDANCE		ACTIVITIES	Α	В	С	D
Unit 232	Describe the legal requirements relating to applying pesticides using electrostatic equipment	Candidate to describe two operator's obligations in terms of legal requirements		e: quired guards are in place and equipme lies with legal requirements	nt			
1.1	electrostatic equipment			ly with all relevant road traffic regulatior operating or transporting on the public ay				
			(Sust	ly with The Plant Protection Products ainable Use) Regulations 2012				
				perator must hold the appropriate cation for the equipment they are using				
				Met√ Not I	Met X			
Unit 232	Describe how to apply pesticides safely using electrostatic equipment	Candidate to describe one operator safety regulation in terms of using electrostatic		e: ly with Pesticide Codes of Practice industry best practice				
1.2	following industry best practice	equipment	COSH	vare of any safety implications imposed HH/Risk Assessment and comply with the ements				
			• aware	eness of possible electro-hazards				
		Candidate to describe two precautions operators may take to protect self from		o: bon filter f in-cab controls				
	pesticide contamination	operating the prime mover	• ensur • close	e ventilation system is functional all windows minated PPE stored in external locker				
			• aware	eness of the siting of pressurised onents within confines of cab				
			 use o aware comp 	canopy/platform: f appropriate PPE eness of the siting of pressurised onents within confines of anopy/platform				
		When preparing the prime mover and electrostatic sprayer, the candidate is to describe three checks which the operator may carry out to protect self from physical	frontwheel	e: atibility of prime mover and sprayer weights I track width ct tyre pressures				
		danger during operation	 brake 	tion of tyres function t integrity				
		Candidate to state four aspects of safe practice to be considered when driving on uneven/sloping terrain	 select appro correct effect use o 	e: is conditions i four wheel drive (if fitted) priate speed ct gear selection of changing load on stability f weights to stabilise prime mover ct turning procedure Met ✓ Not N				

CRITERIA	ASSESSMENT	ASSESSOR	ASSESSMENT				
NUMBER		GUIDANCE	ACTIVITIES	Α	В	С	D
Unit 232	Identify risks to the environment	Candidate to identify all relevant risks to the	May include:				
01111 202	chillionnen	environment for the	 ground conditions water courses 				
2.1		application site	 water courses environmental margins/strips/areas 				
			drains				
			 boreholes 				
			 wildlife 				
			 non-target plants 				
			 sensitive crops/areas 				
			hedgerows				
			housing				
			public access				
			 other risks particular to the site 				
			Met ✓ Not Met X			\square	
	Explain how to minimise	Candidate to explain how to	May include the following:				
Unit 232	risks to the environment	minimise the risks identified	 use of an appropriate pesticide 				
		in 2.1	 careful timing of application 				
2.2			 check and maintain application rate 				
			 avoid spray drift 				
			observe buffer zones				
			erect warning signs				
			 notify neighbours before application 				
		Candidate to state the reason for minimising off target application and spray drift	 avoidance of contamination to people and the environment 				
		Candidate to check and	• use of anemometer at suitable height or visible				
		comment on wind speed and	signs				
		direction	wind direction				
		Candidate to state five	May include:				
		factors that may affect spray		_			
		drift	 wind speed and direction nozzle type and size 				
			 pressure 				
			 forward speed 				
			 nozzle height 				
			defective equipment				
			Met ✓ Not Met X				
Unit 232	Read product information	The candidate is required to read and interpret the	May include the following:	_	_		
01111 202	Interpret product	information on a product label	product name				
3.1	information	and provide relevant	 active substance(s) (ingredient(s)) 				
		information as requested by the Assessor	suitability for electrostatic applications				
Unit 232			Important information:				
3.2		Note to the Assessor: A	field of use				
		product label is required. It is expected that the candidate	crop/target				
		will provide the product label	maximum individual dose				
			maximum total dose				
		The label provided must be for a currently approved product and appropriate to	maximum number of treatments				
		the candidates normal work	specific product precautions/warnings				
		situation	operator protection				
		Note to the Candidate	environmental protection				
		(Assessor also to note): It is acceptable for key	restrictions on use				
		information on the label to be	Crop specific information:				_
		highlighted for use during the	crop/target				
		assessment	dose rate				
Continued			water volume				
			• timing				

CRITERIA NUMBER	ASSESSMENT CRITERIA	ASSESSOR GUIDANCE	ASSESSMENT ACTIVITIES	C/ A	AND B	IDAT C	TE D
	OKTENA	GUIDANCE	Mixing and spraying:			Ŭ	
Cont			• filling				
Unit 232			 reduced volume applications (if applicable) recommended nozzles 				
3.1			 recommended pressure 				
0.1			 spray quality 				
3.2				_	_	_	_
			additional label information compatibility				
			oompaability				
	Identify enroyer	Candidate to identify all	Met ✓ Not Met X May include:				
Unit 232	Identify sprayer components and controls	components & controls	main spray tank				
		relevant to the equipment	• pump				
4.1		being used	pulsation damper				
			filling control and devices				
			agitation control pressure adjustment control				
			 pressure adjustment control pressure gauge 				
			 on/off control 				
			boom isolators				
			boom section pressure compensation controls				
			• filters				
			 tank wash system clean water tank(s) 				
			 nozzles/atomisers 				
			diaphragm check valves				
			tank drain				
			earthing system				
			 other components/controls specific to the applicator 				
		Identify and explain the use	May include:				
		of two types of nozzle, one of which could be that intended	flat fan – fine/medium/coarse spray				
		for use (not applicable to	 air inclusion – medium/coarse spray, low-drift cone – fine spray, good coverage 				
		Rotary Atomiser sprayers)	Met ✓ Not Met X				
	Carry out pre use checks	Candidate to carry out all	May include:				
Unit 232	to the prime mover	pre-use checks relevant to	 guards in place and in good condition 				
4.2		the prime mover being used for the assessment	 visual inspection of the wheels and tyres 				
			tyre pressures fuel level adequate				
			 fuel level adequate engine oil level is within acceptable limits 				
			 hydraulic oil level is within acceptable limits (if 				
			accessible)				
			 transmission oil level is within acceptable limits (if accessible) 				
			 coolant level is adequate 				
			engine air filter is clean				
			Met ✓ Not Met X				
Unit 232	Carry out pre-use and operational checks to the	Candidate to carry out all pre-use and operational	May include all/some of the following as applicable to the sprayer:				
4.3	sprayer	checks to the sprayer					
4.3		Check for mechanical & electrical defects	 seized, worn or damaged controls/components integrity of electrostatic circuitry 				
		Check the sprayer is lubricated correctly	identification of lubrication points				
		iubricateu correctiy	visual inspection of lubrication points				
			visual inspection of oil levels				
		Check security of attachment	fasteners tight				
		of sprayer	straps inspected and adjusted if necessary				
			linkage secure				
Continued			sideways movement restricted				
Continueu			drawbar pin secured				

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CRITERIA NUMBER	ASSESSMENT CRITERIA	ASSESSOR GUIDANCE	ASSESSMENT ACTIVITIES	C A	AND B	DIDA ⁻	TE D
Cont Unit 232		Check boom settings, suspension & break-back devices (if applicable)	 safe unfolding of booms to avoid personal contamination and contact with Over Head Power Lines (OHPL) and any other overhead hazards 				
4.3			 boom suspension operational parallel linkage operational break-back efficiency 				
			height adjustment				
		Remove, clean & refit a filter	Candidate to: • remove & clean using appropriate method • contain spillage • check for defects				
			• refit				
		Remove, clean/replace & refit a nozzle	Candidate to: • remove & clean using appropriate method • contain spillage • check for defects				
			 replace if worn/damaged refit 				
		Part fill sprayer	 suitable site selected fill by usual on-site method, following approved 				
			procedureclean water supply				
		Check sprayer for leaks & spray pattern	 use higher than normal operating pressure visual check of all nozzles for correct spray 				
			 patterns absence of blockages, streaking, pulsing & correct alignment 				
			replace defective nozzles/diaphragm check valveselectrostatic feature operational				
		Explain how to use the control panel to ensure the sprayer is functioning	 functions of control panel recognition of malfunctions before and during operation 				
		correctly	 check accuracy of calibration switch to manual/test mode where applicable 				
		State one suitable action in the event of the control panel failing	 stop pesticide operation manual operation of controls if possible Met ✓ Not Met X 				
Unit 232	Calibrate the application equipment and record relevant data	The candidate is required to calibrate the applicator and record relevant data	Calibration may include the following:				
4.4		Note to the Assessor: Any appropriate method of calibration may be used					
		Select and record forward speed	select suitable forward speed for crop & ground conditions				
			appropriate gear selected and engine speed established				
			 accurate measurement of distance accurate measurement of time taken to cover distance 				
			correct use of formula to determine forward speed				
		Calculate required output/volume rate	correct use of formula				
		Select appropriate nozzle using manufacturer's literature	 use of manufacturer's/operator's handbook use of nozzle manufacturer's literature confirm requirements of product label 				
Continued		Set operating pressure	 pressure as determined from nozzle chart pressurise/purge appropriate to the system 				

CRITERIA	ASSESSMENT	ASSESSOR	ASSESSMENT		AND		
NUMBER	CRITERIA	GUIDANCE	ACTIVITIES	Α	В	С	D
Cont		Check nozzle outputs	 electrostatic system disabled use measuring jug to check output from at least 				
Unit 232			 one nozzle per boom section compare with target output 				
4.4			 vary pressure to make small adjustments 				
			 change nozzles if required 				
		Candidate to record relevant	Calibration data may include:			ĺ	
		calibration data	 registration number of vehicle 				
			tyre size & pressure				
			gear selected				
			engine speed				
			forward speed				
			application volume				
			nozzle fitted				
			operation pressure				
			flow rate				
			Met ✓ Not Met X				
Unit 232	Calculate the quantities of pesticide and water	Candidate to calculate quantities required for both a	May include:	_	_	_	_
01111 2.52	required for a specified	specified area and full tank	amount of water required for specified area				
4.5	operation		amount of pesticide required for specified area				
			amount of pesticide required for full tank				
	Measure the required	Candidate to measure and	Met ✓ Not Met X To include all of the following:				
Unit 232	quantities and add to	add quantities required for	 correct selection and use of PPE/RPE (as 				
	sprayer	the area specified in 4.5	required by the product label, COSHH/Risk				
5.1		Note: This may be a	Assessment)				
		simulated pesticide	suitable site selected				
		product	 fill following product recommendations and approved procedures 				
			 correct use of water supply 				
			 accurate measurement of water 				
			 accurate measurement of pesticide 				
			avoidance of spillage				
			 observance of pesticide manufacturer's instructions for mixing & agitation 				
			Met ✓ Not Met X				
	Demonstrate safe and	Candidate to describe two	May include any of the following:				
Unit 232	accurate application	possible methods to achieve	tramlines				
5.2	procedures	accurate application	crop rows				
J.Z			blob markers				
			marker poles				
			use of GPS				
		Candidate to explain the	Explanation to include:			ĺ	
		appropriate procedure to follow when the applicator	 avoid contact with contaminated crop 				
		needs refilling part way	 mark the spot at which the sprayer emptied 				
		through an application	refill sprayer				
			 continue spraying by accurately matching at the appropriate point 				
		Candidate to explain the	Explanation to include:			1	
		appropriate procedure to	 select and use appropriate PPE/RPE 				
	1	follow when a					_
		nozzle/restrictor becomes	 care not to walk in contaminated crop 				

CRITERIA	ASSESSMENT	ASSESSOR	ASSESSMENT	_			_
NUMBER	CRITERIA	GUIDANCE Candidate to apply pesticide	ACTIVITIES	Α	В	С	D
Cont		to treat a specified area	 ensure boom is level or aligned to the target 				
		appropriate to the candidate's	 correct boom height according to the target and 				
Unit 232		normal work situation and sufficient to demonstrate safe	type of nozzle				
5.2		and accurate application	treatment area clearly identified				
0.2		procedures	constant speed maintained				
			 accurate switch on/off points 				
			 accurate matching of bouts 				
			 obstacles dealt with correctly (if applicable) 				
			 area treated minimising overlaps and misses 				
			 awareness of changing weather conditions and 				
			appropriate action taken (if applicable)				
			Met ✓ Not Met X				
11-11 000	Carry out all activities	Note to the Assessor: The	To include:				
Unit 232 5.3	protecting human health and the environment	Assessor to be satisfied that the candidate has carried out all activities protecting human health and that of the	 prevention of personal injury and contamination through correct selection and use of PPE/RPE (as required by the product information and/or COSHH/Risk Assessment) 				
		environment	 prevention of public/bystander contamination 				
			safe filling procedure				
			avoidance of spray drift				
			 avoidance of off target application 				
			 avoidance of over/under dosing crop/target 				
			Met ✓ Not Met X	\square	\square	\square	\square
	Complete a treatment	Candidate is required to	Completion of the treatment record must be:		—	_	
Unit 232	record	complete a treatment record	accurate				
		Note to the Assessment The	 legible (if handwritten) 				
5.4		Note to the Assessor: The treatment record must be approved by the Assessor (or supplied by the Assessor if	Met ✔ Not Met X				
		necessary)					
	Explain how to manage	Candidate to explain one	Explanation may include:				
Unit 232	surplus pesticide and dispose of waste material	method of dealing with surplus concentrate pesticide	 return to temporary mobile store 				
6.1	dispose of waste material	sulpius concentrate pesticide	return to fixed store				
••••		Candidate to explain two	Containers:				
		methods of dealing with	 triple rinsed (if applicable) 				
		waste containers or	 placed in secure storage until disposal 				
		packaging	returned to supplier				
			 collected by a licensed waste disposal contractor 				
			Packaging:			_	
			thoroughly emptied				
			placed in secure storage until disposal				
			collected by a licensed waste disposal contractor				
		Candidate to explain two	Explanation may include:				
		methods of dealing with	 back on to target as long as it is below the 				
		surplus dilute pesticide	maximum dose rate				
			use on another approved crop/target				
			 treated by specialist treatment facility on site (e.g. a lined bio bed) 				
			 collected by a licensed waste disposal contractor 				
			Met ✓ Not Met X				
	Explain how to clean and decontaminate the	Candidate to explain four factors that need to be considered when cleaning the	May include: • select and use correct PPE/RPE • selection of an expression site for elements the				
Unit 232	applicator and prime mover	1 1 2 2 2 1 2 2	 selection of an appropriate site for cleaning the application equipment 				
Unit 232 6.2	applicator and prime mover (if applicable)	sprayer and, if applicable, the prime mover					
			triple rinse the applicator following product	_			
			 triple rinse the applicator following product information recommendations 				
			triple rinse the applicator following product information recommendationsthrough flushing of system	_			
			triple rinse the applicator following product information recommendationsthrough flushing of system				
			 triple rinse the applicator following product information recommendations through flushing of system safe disposal of contaminated washings in an 				

CRITERIA	ASSESSMENT	ASSESSOR	ASSESSMENT	C	AND	IDAT	ſE
NUMBER	CRITERIA	GUIDANCE	ACTIVITIES	Α	В	С	D
Unit 232	Describe the storage requirements for the sprayer	Candidate to describe three factors to consider when storing the sprayer	May include: • ensure the application equipment is clean and dry				
6.3	sprayer	storing the sprayer	 inspect for wear or damage repair or notify supervisor if not within operators 				
			level of responsibility and abilitylubricate if required				
			 frost protection measures implemented 				
			store in a secure area				
			 isolation of any electrical controls/components 				
			 store under cover and out of direct sunlight 				
			Met ✔ Not Met X				

Unit 3 – Operation of Pesticide Applicators attached to Cultivating or Planting Equipment

Candidate	Α	Name:		Date	e:		Start Time:	Dura	atior	า:		
Candidate	B	Name:		Date	e:		Start Time:	Dura	atior	า:		
Candidate	C	Name:		Date	e:		Start Time:	Dura	atior	า:		
Candidate	Ð	Name:		Date	e:		Start Time:	Dura	atior	า:		
CRITERIA		ASSESSMENT	ASSESSOR				SSESSMENT		_	AND		
NUMBER	Des	CRITERIA cribe the legal	GUIDANCE Candidate to describe two	,	May include:	1	ACTIVITIES		Α	В	С	D
Unit 233 1.1	requ app equ	livements relating to lying pesticides using ipment attached to ivators or planters	operator's obligations in terms of legal requirements	6	 all required complies w comply wit 	vith le h all r	ds are in place and equipm gal requirements elevant road traffic regulatio or transporting on the publi	ons				
							Plant Protection Products e) Regulations 2012					
					• the operate	or mu	st hold the appropriate ne equipment they are usin	g				
							Met√ Not	t Met X				
Unit 233 1.2	pes equ cult follo	cribe how to apply ticides safely using ipment attached to ivators or planters wing industry best ctice	Candidate to describe one operator safety regulation i terms of using multi-modal equipment	n I	adopt indube aware of	stry b of any	ticide Codes of Practice est practice safety implications impose sessment and comply with					
	pice		Candidate to describe two precautions operators may take to protect self from	/	requiremer Sealed cab: • fit carbon f • use of in-c	ilter	ntrols					
			pesticide contamination wh operating the prime mover		close all wcontamina	indow ted Pl	n system is functional s PE stored in external locker e siting of pressurised					
						its with cy/plat	nin confines of cab					
			Million and a strength and a		componen cab/canopy	ts with	e siting of pressurised nin confines of orm					
			When preparing the prime mover and application equipment, the candidate i to describe three checks which the operator may can out to protect self from physical danger during operation	is rry	May include: compatibili front weigh wheel track correct tyre condition c brake func	nts k widtl e pres of tyres	sures					
			Candidate to state four aspects of safe practice to considered when driving or uneven/sloping terrain	be າ		whee e spee ar sele nangin ghts to	l drive ection ng load on stability o stabilise prime mover					
							Met ✓ Not	Met X				

CRITERIA	ASSESSMENT	ASSESSOR	ASSESSMENT				
NUMBER	CRITERIA	GUIDANCE	ACTIVITIES	Α	В	С	D
Unit 233	Identify risks to the environment	Candidate to identify all relevant risks to the	May include the following:				
01111 200	chulonnen	environment for the	water courses				
2.1		application site	 ground conditions drains 				
			 boreholes 				
			wildlife				
			non target plane				
			sensitive crops/areas				
			housing				
			public/co-worker access				
			 environmental margins/strips/areas other risks specific to the site 				
			other risks specific to the site				
			Met ✓ Not Met X				
	Explain how to minimise	Candidate to explain how to	May include the following:				
Unit 233	risks to the environment	minimise the risks identified	 use of appropriate pesticides 				
2.2		in 2.1	careful timing of application				
2.2			 check and maintain application rate 				
			 avoid spray drift 				
			observe buffer zones				
			erect warning signs				
			 notify neighbours before application 				
		Candidate to check and	use of anemometer at suitable height or visible		_		
		comment on wind speed and direction	signs				
			wind direction				
		Candidate to state the reason for minimising off	 avoidance of contamination to people and the environment 				
		target application with the pesticide products being applied					
		Candidate to state five	May include:				
		factors that may affect off	 wind speed and direction 				
		target application	 nozzle type and size 				
			pressure				
			forward speed				
			nozzle height				
			defective delivery mechanisms				
			Met ✓ Not Met X				
	Read product information	For each product being	May include the following:				
Unit 233	·	used:	 product name 				
24	Interpret product information	The candidate is required to	 active substance(s) (ingredient(s)) 				
3.1	IIIOIIIalion	read and interpret the					
2.2		information on a product label	Important information:		_	_	_
3.2		and provide relevant	• field of use				
		information as requested by the Assessor	• crop/target				
			maximum individual dose				
		Note to the Assessor: A	maximum total dose				
		product label is required. It is expected that the candidate	maximum number of treatments				
		will provide the product label. The label provided must be	 specific product precautions/warnings 				
		for a currently approved	operator protection				
		product and appropriate to	environmental protection				
		the candidates normal work	restrictions on use				
		situation	Crop specific information:	1			
		Note to the Candidate	crop/target				
		(Assessor also to note): It is	 dose rate 				
		acceptable for key information on the label to be	 water volume (if applicable) 				
		highlighted for use during the	 timing 				
Continued		i		1 1 1	1 1 1		

CRITERIA	ASSESSMENT	ASSESSOR	ASSESSMENT				
NUMBER	CRITERIA	GUIDANCE	ACTIVITIES Mixing and spraying:	Α	В	С	D
Cont			 filling 				
Unit 233			 reduced volume applications (if applicable) 				
Unit 255			recommended nozzles				
3.1			recommended pressure				
			spray quality				
3.2			recommended aperture settings				
			soil incorporation requirements				
			additional label information				
			compatibility				
			Met ✓ Not Met X				
	Identify applicator	Candidate to identify all	May include:				1
Unit 233	components and controls	components & controls relevant to each item of the	tank/hopper				
4.1		application equipment being	• lid				
		used	filterspipe work				
			connections				
			 filling controls and devices 				
			pressure adjustment control				
			pressure gauge				
			diaphragm check valves				
			tank wash system				
			 clean water tank(s) seals 				
			seals pump				
			mechanical/electrical controls				
			 nozzles/delivery mechanisms 				
			aperture controls				
			Met ✓ Not Met X				
	Carry out pre use and	Candidate to check the prime	May include:				
Unit 233	operational checks to the	mover for safe operation	 visual inspection of the wheels & tyres 				
4.2	prime mover		tyre pressures				
			fuel level adequate				
			 engine oil within acceptable limits hydraulic oil within acceptable limits (if accessible) 				
			 transmission oil level within acceptable limits (if accessible) 				
			accessible)				
			coolant level is adequate				
			engine air filter is clean				
			Met ✓ Not Met X				
Unit 233	Carry out pre-use checks to the applicator(s)	Candidate to carry out all pre-use checks to each item	May include all/some of the following as applicable to the application equipment:				1
01111 233		of application equipment	the application equipment.				
4.3		Check for mechanical	 seized, worn or damaged controls/components 				
		defects	seized, worn or damaged controls/components				
		Check the employetion	identification of lubrication points				
		Check the application mechanisms are lubricated	 visual inspection of lubrication points 				
		correctly	visual inspection of oil levels				
		Check security of attachment application equipment to	fasteners tight				
		cultivator or planter	 linkage secure sideways movement restricted 				
			 drawbar pin secured 				
		Remove, clean & refit a filter	Candidate to: • remove & clean using appropriate method				
			 remove & clean using appropriate method contain spillage 				
			check for defects				
							·
Continued			 refit 				

CRITERIA NUMBER	ASSESSMENT CRITERIA	ASSESSOR GUIDANCE	ASSESSMENT ACTIVITIES	C. A	AND B	IDA C	TE D
Cont		Part fill tank/hoppers	suitable site selected				
			 fill by usual on-site method, following approved procedures 				
Unit 233			clean water supply				
4.3		Explain how to use the	functions of control panel				
		control panel(s) to ensure the	recognition of malfunctions before and during				
		application equipment is functioning correctly	 operation check accuracy of calibration 				
			 switch to manual/test mode where applicable 				
		State one suitable action in	 stop pesticide application 				
		the event of the control panel(s) failing	manual operation of controls if possible				
			Met ✓ Not Met X				
Unit 233	Calibrate the application equipment and record	The candidate is required to calibrate each item of	Calibration may include the following:				
4.4	relevant data	application equipment					
4.4		Select & record forward speed	 select suitable forward speed for crop & ground conditions 				
			appropriate gear selected and engine speed				
		Note to the Assessor: Any appropriate methods of	 established accurate measurement of distance 				
		calibration may be used	 accurate measurement of time taken to cover 				
			 distance correct use of formula to determine forward speed 				
		Calculate required outputs	correct use of formula				
		Select appropriate nozzle/adjust delivery	• use of manufacturer's/operator's handbooks				
		mechanisms using	 use of nozzle manufacturer's literature confirm requirements of product label 				
		manufacturer's literature					
		Set operating pressure	pressure as determined from nozzle chart				
			pressurise/purge appropriate to the system				
		Check nozzle outputs/check delivery of powders/granules	use measuring jug to check liquid outputs				
		(as appropriate)	 use weighing equipment to check powder/granule outputs 				
			compare with target outputs				
			vary settings to make appropriate adjustments				
		Candidate to record relevant calibration data	Calibration data may include: • registration number of prime mover			_	_
			 tyre size & pressure 				
			gear selected				
			engine speedforward speed				
			 applicator settings 				
			flow rate				
			Met ✓ Not Met X				
Unit 233	Measure the required quantities of pesticide and	Candidate to measure and add quantities of pesticides	To include all of the following:				
5.1	add to the applicator(s)	required for the area	 correct selection and use of PPE/RPE (as required by the product label, COSHH/Risk Assessment) 				_
5.1		specilieu	Assessment) suitable site selected 				
			fill following product recommendations and				
			approved procedurescorrect use of water supply				
			 accurate measurement of water 				
			accurate measurement/weighing of pesticide				
			 avoidance of spillage observance of pesticide manufacturer's 				
			instructions for mixing and agitation (if		_		
			applicable)				
			Met ✓ Not Met X		\square		

CRITERIA	ASSESSMENT	ASSESSOR	ASSESSMENT	-			
NUMBER	CRITERIA Demonstrate safe and	GUIDANCE Candidate to describe one	ACTIVITIES May include any of the following:	Α	В	С	D
Unit 233	accurate application	possible method of marking	 crop rows 				
	procedures	out the site to achieve	 marker poles 				
5.2		accurate application	 use of GPS 				
		Candidate to explain the	Explanation to include:				
		appropriate procedure to	 avoid contact with contaminated crop 				
		follow when the applicators	 mark the spot at which the tank/hopper emptied 				
		need filling part way through an application	refill tank/hopper				
			continue application by accurately matching at the appropriate point				
		The candidate is required to	To include:				
		treat the area specified demonstrating safe and	 constant speed maintained 				
		accurate application	 accurate switch on/off points 				
		procedures	 accurate matching of bouts 				
			 obstacles dealt with correctly (if applicable) 				
			 area treated minimising overlaps and misses 				
			 awareness of changing weather conditions and appropriate action taken (if applicable) 				
			Appropriate action taken (ir applicable) Met ✓ Not Met X				
	Carry out all activities	Note to the Assessor:	To include:				
Unit 233 5.3	protecting human health and the environment	Assessor to be satisfied that the candidate has carried out all activities protecting human health and the environment	 prevention of personal injury and contamination through correct selection and use of PPE/RPE (as required by the product information and/or COSHH/Risk Assessment) 				
		environment	 prevention of public/bystander contamination 				
			safe filling procedure				
			 avoidance of spray drift 				
			 avoidance of off target application 				
			 avoidance of over/under dosing crop/target 				
			Met ✓ Not Met X				
Unit 233	Complete a treatment record	Candidate is required to complete a treatment record	Completion of the treatment record must be:				
5.4		Note to the Assessor: The	legible (if handwritten)				
5.4		treatment record must be	Met ✓ Not Met X				
		approved by the Assessor (or supplied by the Assessor if necessary)	Wet * Not wet X				
Unit 233	Explain how to manage surplus pesticide(s) and	Candidate to explain one	Explanation may include:				
01111 255	dispose of waste material	method of dealing with surplus concentrate pesticide	return to temporary mobile store				
6.1			return to fixed store				
		Candidate to explain two	Containers:				
		methods of dealing with	triple rinsed (if applicable)				
		waste containers or packaging	 placed in secure storage until disposal 				
		P	 returned to supplier 				
			collected by a licensed waste disposal contractor				
			Packaging:		_	_	
			thoroughly emptied				
			placed in secure storage until disposal				
			collected by a licensed waste disposal contractor				
		Candidate to explain one	Explanation may include:				
		method of dealing with	 use on another approved crop/target 				
		surplus dilute pesticide	• treated by specialist treatment facility on site (e.g.	1			
			a lined bio bed)				
	1	1	 collected by a licensed waste disposal contractor 				

CRITERIA	ASSESSMENT	ASSESSOR	ASSESSMENT	C	AND	IDA1	ΓE
NUMBER	CRITERIA	GUIDANCE	ACTIVITIES	Α	В	С	D
Unit 233	Explain how to clean and decontaminate the applicator(s) and prime	Candidate to explain four factors that need to be considered when cleaning/	May include: • select and use correct PPE/RPE				
6.2	mover (if applicable)	decontaminating the applicator(s) and, if	 selection of an appropriate site for cleaning the application equipment 				
		applicable, the prime mover	triple rinse the liquid applicator following product information recommendations				
			 through flushing of system 				
			 safe disposal of contaminated washings in an appropriate manner following good practice 				
			 thorough (dry) cleaning of powder/granule mechanisms following product manufacturer's guidelines 				
		 safe disposal of contaminated (dry) arisings following product manufacturer's guidelines 					
			Met ✔ Not Met X				
	Describe the storage	Candidate to describe three	May include:				
Unit 233	requirements for the	factors to consider when	ensure the application equipment is clean and dry				
6.3	applicator(s)	storing the application equipment	 inspect for wear or damage 				
0.3		equipment	 repair or notify supervisor if not within operators level of responsibility and ability 				
			Iubricate if required				
			 frost protection measures implemented 				
			 rust protection applied as appropriate 				
			 store in a secure area 				
			 isolation of any electrical controls 				
			 store under cover and out of direct sunlight 				
			Met ✓ Not Met X				

Unit 234 – Operation of a Sprayer Mounted on a Train fitted with Hydraulic Nozzles for Applying Pesticides

Candidate A	Name:	Date:	Start Time:	Duration:
Candidate B	Name:	Date:	Start Time:	Duration:
Candidate C	Name:	Date:	Start Time:	Duration:
Candidate D	Name:	Date:	Start Time:	Duration:

CRITERIA	ASSESSMENT	ASSESSOR		ASSESSMENT		AND		
NUMBER	CRITERIA	GUIDANCE		ACTIVITIES	Α	В	С	D
Unit 234	Describe the legal requirements relating to applying pesticides using rail track application	Candidate to describe two operator's obligations in terms of legal requirements	May ●	ⁱ include: all required guards are in place and equipment complies with legal requirements				
1.1	equipment		•	comply with all relevant trackside safety regulations and protocols				
			•	comply with The Plant Protection Products (Sustainable Use) Regulations 2012				
			•	the operator must hold the appropriate certification for the equipment they are using				
				Met√ Not Met X				
	Describe how to apply	Candidate to describe one	Мау	/ include:				
Unit 234	pesticides safely using rail track application	operator safety regulation in terms of using rail track	•	comply with Pesticide Codes of Practice				
1.2	equipment following	application equipment	•	adopt industry best practice				
	industry best practice		•	be aware of any safety implications imposed by Risk/COSHH Assessment and comply with the requirements				
		When preparing the rail track	Мау	rinclude:				
		application equipment, the candidate is to describe two	•	trackside safety protocols				
		checks which the equipment	٠	safe access from ground level to spraying	_		_	
		operator may carry out to	•	platform safe travel along spraying platform				
			•					
		NB. it is imperative (with even the simplest application equipment) that the safe operation of the train remains the sole responsibility of the train driver, and the application equipment operator's responsibilities will always be secondary to that of the train driver		Met ✓ Not Met X				
Unit 234	Identify risks to the environment	Candidate to identify all relevant risks to the	May ●	r include the following:	_	_	_	_
0111 234	environment	environment for the	•	water courses drains				
2.1		application site		wildlife				
			•	viaducts				
			•	station platforms				
			•	non-target plants				
			•	sensitive crops/areas				
			•	trackside housing				
			•	public/co-worker access				
			•	other risks specific to the site				
				Met ✓ Not Met X				

NUMBER Unit 234	CRITERIA Explain how to minimise	GUIDANCE	ACTIVITIES	Α	В	С	D
Unit 234	Explain how to minimise	Condidate to evaluate hourst-					U
Unit 234		Candidate to explain how to	May include the following:				
	risks to the environment	minimise the risks identified in 2.1	 use of an appropriate pesticide 				
2.2		111 2.1	 careful timing of application 				
2.2			 check and maintain application rate 				
			 avoid spray drift 				
			observe buffer zones				
		Candidate to check and	use of anemometer at suitable height or visible				
		comment on wind speed and direction	signs				
		unection	wind direction				
		Candidate to state the reason for minimising off target application and spray drift	 avoidance of contamination to people and the environment 				
		Candidate to state five	May include:				
		factors that may affect spray	 wind speed and direction 				
		drift	 nozzle type and size 				
			pressure				
			forward speed				
			nozzle height & angle				
			defective equipment				
			Met ✓ Not Met X				
	Pood product information	The condidate is required to	May include the following:				
Unit 234	Read product information	The candidate is required to read and interpret the	, , , , , , , , , , , , , , , , , , , ,				
01111 204	Interpret product	information on a product label	product name				
3.1	information	and provide relevant	 active substance(s) (ingredient(s)) 				
••••		information as requested by	Important information:				
Unit 234		the Assessor	 field of use 				
		Note to the Assessor: A	crop/target				
3.2		product label is required. It is	 maximum individual dose 				
		expected that the candidate					
		will provide the product label	maximum total dose				
		The label provided must be	maximum number of treatments				
		for a currently approved	 specific product precautions/warnings 				
		product and appropriate to					
		the candidate's normal work	-Ference Freedomen				
		situation	environmental protection				
		Note to the Candidate	restrictions on use				
		(Assessor also to note): It is	Crop specific information:				
		acceptable for key	 crop/target 				
		information on the label to be	dose rate				
		highlighted for use during the assessment	water volume				
		assessment	timing				
			Mixing and spraying:				
			• filling				
			 reduced volume applications (if applicable) 				
			recommended nozzles				
			recommended pressure				
			spray quality				
				1.			
			additional label information				
		1	 compatibility 				
		1	Compatibility				

CRITERIA	ASSESSMENT	ASSESSOR	ASSESSMENT				
NUMBER	CRITERIA Identify sprayer	GUIDANCE Candidate to identify all	ACTIVITIES May include:	Α	В	С	D
Unit 234	components and controls	components & controls					
		relevant to the equipment					
4.1		being used	transfer systems				
			• filters				
			pipe work				
			• connections				
			filling controls and devices				
			pressure adjustment control				
			pressure gauge				
			clean water tank				
			• seals				
			• pumps				
			mechanical/electrical controls				
		Candidate to identify and	May include:				
		explain the use of two types	 flat fan – standard boom nozzle 				
		of nozzle, one of which could	 radial – standard spraytrain nozzle 				
		be that intended for use	 extended reach nozzle 				
			Met ✓ Not Met X				
	Carry out pre-use and	Candidate to carry out all	May include all/some of the following as applicable to				
Unit 234 4.2	operational checks to the sprayer	pre-use and operational checks to the sprayer	the sprayer:				
		Check for mechanical defects	• seized, worn or damaged controls/components				
		Check the sprayer is	identification of lubrication points				
		lubricated correctly	 visual inspection of lubrication points 				
			• visual inspection of oil levels (if applicable)				
		Check security of attachment	fasteners tight				
		of sprayer	 linkage secure (if applicable) 				
		Check boom settings,	 boom suspension operational 				
		suspension & break-back	 break-back efficiency 				
		devices (if applicable)	height adjustment				
		Remove, clean & refit a	Candidate to:				
		filter	 remove & clean using appropriate method 				
			 contain spillage 				
			 check for defects 				
			• refit				
		Remove, clean/replace &	Candidate to:				
		refit a nozzle	 remove & clean using appropriate method 				
			contain spillage				
			check for defects				
			replace if worn/damaged				
			• refit				
		Part fill sprayer	suitable site selected				
			 fill by usual on-site method, following approved procedure 				
			 clean water supply 				
		Check sprayer for leaks and	use higher than normal operating pressure				
		spray pattern	 visual check of all nozzles for correct spray notterna. 				_
			 patterns absence of blockages, streaking, pulsing & 				
			correct alignment				
			• replace defective nozzles/diaphragm check valves				
		Explain how to use the	functions of control panel				
		control panel to ensure the	 recognition of malfunctions before and during 				
	1	sprayer is functioning	operation				
			operation				
continued		correctly	check accuracy of calibration				

	ASSESSMENT	ASSESSOR	ASSESSMENT	C A	AND	IDA [.]	TE D
NUMBER	CRITERIA	GUIDANCE State one suitable action in	ACTIVITIES stop pesticide operation				
Cont		the event of the control panel	 stop pesticide operation manual operation of controls if possible 				
Unit 234		failing					
01111 234			Met ✓ Not Met X				
4.2							
Unit 234	Calibrate the sprayer and record relevant data	The candidate is required to calibrate the application equipment	Calibration may include the following:				
4.3		Note to the Assessor: Any appropriate method of calibration may be used					
		Select and record forward	request suitable forward speed				
		speed	accurate measurement of distance				
			 accurate measurement of time taken to cover distance 		_	_	_
			distance				
			correct use of formula to determine forward speed				
		Calculate required output/volume rate	correct use of formula				
		Select appropriate nozzle	use of manufacturer's operators handbook				
		using manufacturer's	 use of nozzle manufacturer's literature 				
		literature	confirm requirements of product label				
		Set operating pressure	pressure as determined from nozzle chart				
			pressurise/purge appropriate to the system				
		Check nozzle outputs	 use measuring jug to check output from at least one nozzle 				
			compare with target output				
			 vary pressure to make small adjustments 				
			change nozzles if required				
		Candidate to record relevant	Calibration data may include:				
		calibration data	 identification number of spray train 				
			 forward speed 				
			application volume				
			nozzle fitted				
			operation pressure				
			flow rate				
			Met ✓ Not Met X				
	Calculate the quantities of	Candidate to calculate	May include:				
Unit 234	pesticide and water	quantities required for the	 amount of pesticide required for specified area 				
	required for a specified	track length & width specified	 amount of water required for specified area 				
4.4	operation	and a full tank (if applicable)	 amount of pesticide required for full tank 				
			Met ✓ Not Met X				
	Determine that there are	Candidate to measure and	To include all of the following;				
Unit 234	sufficient quantities of	add quantities required for	 correct selection and use of PPE (as required by 				
	water and pesticide on	the area specified (if	the product label, COSHH/Risk Assessment)				
5.1	board for the task	applicable) or confirm that	suitable site selected				
		quantities are sufficient	fill following product recommendations and				
			approved procedures				
			correct use of water supply				
			accurate measurement of water				
			accurate measurement of pesticide				
			 avoidance of spillage observance of pesticide manufacturer's 				
			observance of pesticide manufacturer's instructions for mixing and agitation				
			Met ✓ Not Met X				
							Ľ

CRITERIA NUMBER	ASSESSMENT CRITERIA	ASSESSOR GUIDANCE	ASSESSMENT ACTIVITIES	C A	AND B	IDA [.] C	TE T D
	Demonstrate safe and	Candidate to describe one	May include any of the following:	^			F
Unit 234	accurate application	possible method of marking	 track markers 				
5.2	procedures	out the site to achieve accurate application	use of GPS				
5.2							
		Candidate to explain the	Explanation to include:				
		appropriate procedure to follow when the sprayer	 avoid contact with contaminated target 				
		needs filling part way through	 mark the spot at which the sprayer emptied 				
		an application	refill sprayer				
			 continue spraying by accurately matching at the appropriate point 			_	
			appropriate point				
		Candidate to explain the appropriate procedure to	Explanation to include:				
		follow when a nozzle	select and use appropriate PPE				
		becomes blocked during	care not to walk in contaminated target				
		spraying	clean or replace nozzle as appropriate				[
		The candidate is required to	To include:				
		treat the area specified demonstrating safe and	• correct boom height and attitude according to the				
		accurate application	target and type of nozzle				
		procedures	treatment area clearly identified				[
			constant speed maintained				[
			accurate switch on/off points				[
			obstacles dealt with correctly (if applicable)				[
			 awareness of changing climatic conditions and appropriate action taken (if applicable) 		_	_	
			appropriate action taken (il applicable)				[
			Met ✓ Not Met X				
	Carry out all activities	Note to the Assessor:	To include:				T
Unit 234	protecting human health	Assessor to be satisfied that	prevention of personal injury and contamination				
5.3	and the environment	the candidate has carried out all activities protecting	through correct selection and use of PPE (as				
5.5		human health and the	required by the product information and/or COSHH/Risk Assessment)				
		environment	 prevention of public / bystander contamination 				
			 safe filling procedure 				
			 avoidance of off target application 				
			 avoidance of our larget application avoidance of over/under dosing target 				
	Complete a treatment	Candidate is required to	Met ✓ Not Met X Completion of the treatment record must be:				╞
Unit 234	record	complete a treatment record	accurate				
••••••••			acoulato				
5.4		Note to the Assessor: The	legible (if handwritten)				[
		treatment record must be approved by the Assessor (or supplied by the Assessor if	Met ✓ Not Met X				
		necessary)					
	Explain how to manage	Candidate to explain one	Explanation may include:				
Unit 234	surplus pesticide and dispose of waste material	method of dealing with surplus concentrate pesticide	 return to temporary mobile store 				[
6.1	dispose of waste material	sulpius concentrate pesticide	return to fixed store				[
0.1		Candidate to explain two	Containers:				
		methods of dealing with	 triple rinsed (if applicable) 				
		waste containers or	 placed in secure storage until disposal 				
		packaging					[
			 returned to supplier collected by a licensed waste disposal contractor 				[
			Collected by a licensed waste disposal contractor				
			Packaging:				
			thoroughly emptied				
			 placed in secure storage until disposal 				
			collected by a licensed waste disposal contractor				
		Candidate to explain two	Explanation may include:				
		methods of dealing with	 back on to target as long as it is below the 				
		surplus dilute pesticide	maximum dose rate				
			 use on another approved target 				
			 collected by a licensed waste disposal contractor 				
		Met ✓ Not Met X					

6.2 applicator and prime mover (if applicable) considered when cleaning the sprayer and, if applicable, the prime mover selection of an appropriate site for cleaning the application equipment I	CRITERIA	ASSESSMENT	ASSESSOR	ASSESSMENT	C	AND	IDA'	ΓE
Unit 234 decontaminate the applicator and prime mover (if applicable) factors that need to be considered when cleaning the sprayer and, if applicable, the prime mover select and use correct PPE I	NUMBER	CRITERIA	GUIDANCE	ACTIVITIES	Α	В	С	D
Unit 234 Describe the storage requirements for the applicator Candidate to describe three factors to consider when storing the sprayer May include: May include: Image: Candidate to describe three factors to consider when storing the sprayer 6.3 Candidate to describe three factors to consider when storing the sprayer May include: Image: Candidate to describe three factors to consider when storing the sprayer Image: Candidate to describe three factors to consider when storing the sprayer Image: Candidate to describe three factors to consider when storing the sprayer Image: Candidate to describe three factors to consider when storing the sprayer Image: Candidate to describe three factors to consider when storing the sprayer Image: Candidate to describe three factors to consider when storing the sprayer Image: Candidate to describe three factors to consider when storing the sprayer Image: Candidate to describe three factors to consider when storing the sprayer Image: Candidate to describe three factors to consider when storing the sprayer Image: Candidate to describe three factors to consider when storing the sprayer Image: Candidate to describe the application equipment is clean and dry image: Candidate to describe the applicator Image: Candidate to describe three factors to consider when storing the sprayer Image: Candidate to describe three factors to consider when storing the sprayer Image: Candidate to describe three factors to consider when storing the sprayer Image: Candidate to describe three factors to consider when storing the sprayer Image: Candidate to describe three factors to constore the sprayer </th <th></th> <th>decontaminate the applicator and prime mover</th> <th>factors that need to be considered when cleaning the sprayer and, if applicable, the</th> <th> select and use correct PPE selection of an appropriate site for cleaning the application equipment triple rinse the applicator following product information recommendations through flushing of system safe disposal of contaminated washings in an appropriate manner following good practice </th> <th></th> <th></th> <th></th> <th></th>		decontaminate the applicator and prime mover	factors that need to be considered when cleaning the sprayer and, if applicable, the	 select and use correct PPE selection of an appropriate site for cleaning the application equipment triple rinse the applicator following product information recommendations through flushing of system safe disposal of contaminated washings in an appropriate manner following good practice 				
Unit 234 requirements for the applicator factors to consider when storing the sprayer • de-commissioning • de-commissioning • • de-commissioning 6.3 • ensure the application equipment is clean and dry inspect for wear or damage • • • • • • • • • • • • • • • • • • •								
Met 🗸 Not Met X		requirements for the	factors to consider when	 de-commissioning ensure the application equipment is clean and dry inspect for wear or damage repair or notify supervisor if not within operators level of responsibility and ability lubricate if required frost protection measures implemented store in a secure area 				

Unit 5 – Operation of a Bankside Sprayer Mounted on a Train fitted with Hydraulic Nozzles for applying Pesticides

Candidate A	Name:	Date:	Start Time:	Duration:
Candidate B	Name:	Date:	Start Time:	Duration:
Candidate C	Name:	Date:	Start Time:	Duration:
Candidate D	Name:	Date:	Start Time:	Duration:

CRITERIA	ASSESSMENT	ASSESSOR	ASSESSMENT	_		IDA ⁻	
NUMBER	CRITERIA	GUIDANCE	ACTIVITIES	Α	В	С	D
Unit 235	Describe the legal requirements relating to applying pesticides using rail track bankside	Candidate to describe two operator's obligations in terms of legal requirements	May include: • all required guards are in place and equipment complies with legal requirements				
1.1	application equipment		 comply with all relevant trackside safety regulations and protocols 				
			 comply with The Plant Protection Products (Sustainable Use) Regulations 2012 				
			 the operator must hold the appropriate certification for the equipment they are using 				
			Met✓ Not Met	(
	Describe how to apply	Candidate to describe one	May include:				
Unit 235	pesticides safely using rail track bankside application	operator safety regulation in terms of using rail track	 comply with Pesticide Codes of Practice 				
1.2	equipment following	application equipment	 adopt industry best practice 				
	industry best practice		 be aware of any safety implications imposed by COSHH/Risk Assessment and comply with the requirements 			_	
			requirements				
		When preparing the rail track	May include:				
		application equipment, the candidate is to describe two	 trackside safety protocols 				
		 safe access from ground level to spraying platform 					
		protect self from physical	 safe travel along spraying platform 				
		danger during operation	Met ✓ Not Met 3	(
		NB: It is imperative that the safe operation of the train remains the sole responsibility of the train driver, and the application equipment operator's responsibilities will always be secondary to that of the train driver					
	Identify risks to the	Candidate to identify all	May include the following:				
Unit 235	environment	relevant risks to the environment for the	water courses				
2.1		application site	• drains				
			• wildlife				
			• viaducts				
			station platforms				
			non-target plants				
			sensitive crops/areastrackside housing				
			 trackside nousing public/co-worker access 				
			 public/co-worker access other risks specific to the site 				
			·				
			Met ✓ Not Met 3				

RITERIA	ASSESSMENT	ASSESSOR	ASSESSMENT			IDA.	
NUMBER	CRITERIA	GUIDANCE	ACTIVITIES	Α	В	С	D
11:4 005	Explain how to minimise	Candidate to explain how to	May include the following:				
Unit 235	risks to the environment	minimise the risks identified in 2.1	 use of an appropriate pesticide 				
2.2			 careful timing of application 				
2.2			 check and maintain application rate 				
			 avoid spray drift 				
			observe buffer zones				
		Candidate to check and comment on wind speed and	 use of anemometer at suitable height or visible signs 				_
		direction	 wind direction 				
		Candidate to state the reason for minimising off target application and spray drift	 avoidance of contamination to people and the environment 				
		Candidate to state five	May include:				
		factors that may affect spray	 wind speed and direction 				
		drift	 nozzle type and size 				
			• pressure				
			 forward speed 				
			 nozzle height & angle 				
			defective equipment				[
			Met ✓ Not Met X				
	Read product information	The candidate is required to	Met V Not Met X May include the following:				
Unit 235	Read product information	read and interpret the					
01111 200	Interpret product	information on a product label	product name				
3.1	information	and provide relevant	 active substance(s) (ingredient(s)) 				[
Unit 235	information	information as requested by the Assessor	Important information: • field of use				
2.2		Note to the Assessor: A	crop/target				
3.2		product label is required. It is	 maximum individual dose 				
		expected that the candidate	 maximum total dose 				
		will provide the product label	 maximum total dose maximum number of treatments 				
		The label provided must be					[
		for a currently approved	 specific product precautions/warnings 				[
		product and appropriate to	operator protection				[
		the candidates normal work situation	 environmental protection 				[
		Situation	 restrictions on use 				
		Note to the Candidate (Assessor also to note): It is	Crop specific information:				
		acceptable for key					
		information on the label to be	crop/target				[
		highlighted for use during the	dose rate				
		assessment	water volume timing				
						[
			Mixing and spraying:				
			• filling				[
			 reduced volume applications (if applicable) 				[
			recommended nozzles				
		recommended pressure					
			spray quality				
			additional label information	_			
		 compatibility 					

CRITERIA NUMBER	ASSESSMENT CRITERIA	ASSESSOR GUIDANCE	ASSESSMENT ACTIVITIES	C. A	AND B	DAT	TE D
Unit 235	Identify sprayer components and controls	Candidate to identify all components and controls	May include:				
	components and controls	relevant to the equipment	 tank(s) transfer systems 				
4.1		being used	 filters 				
			pipe work				
			connections				
			 filling controls and devices pressure adjustment control 				
			 pressure auguaritati control pressure gauge 				
			clean water tank				
			operating pod				
			 nozzle directional controls seals 				
			 pumps 				
			mechanical/electrical controls				
		Candidate to identify and	May include:				
		explain the use of two types	• flat fan – standard boom nozzle				
		of nozzle, one of which could be that intended for use	radial – standard spraytrain nozzle				
			extended reach nozzle				
			Met ✓ Not Met X				
Unit 235	Carry out pre-use and operational checks to the	Candidate to carry out all pre-use and operational	May include all/some of the following as applicable to the sprayer:				
4.0	sprayer	checks to the sprayer					
4.2		Check for mechanical defects	seized, worn or damaged controls/components				
		Check the sprayer is	identification of lubrication points				
		lubricated correctly	 visual inspection of lubrication points 				
			visual inspection of oil levels (if applicable)				
		Check security of attachment	fasteners tight				
		of sprayer	linkage secure (if applicable)				
		Check all directional controls and guidance systems	• free movement throughout range of operation				
		Remove, clean & refit a	Candidate to:				
		filter	remove & clean using appropriate method				
			 contain spillage check for defects 				
			 refit 				
		Demons alson/nonlass 0	Candidate to:				
		Remove, clean/replace & refit a nozzle	 remove & clean using appropriate method 				
			contain spillage				
			check for defects				
			 replace if worn/damaged refit 				
		Part fill sprayer	suitable site selected				
			 fill by usual on-site method, following approved procedure 				
			 clean water supply 				
			 use higher than normal operating pressure 				
		Check sprayer for leaks & spray pattern	 visual check of all nozzles for correct spray patterns 				
			 absence of blockages, streaking, pulsing and correct alignment 				
			 correct alignment replace defective nozzles 				
		Explain how to use the	functions of control panel				
		control panel to ensure the sprayer is functioning	 recognition of malfunctions before and during operation 	_	_	_	_
		correctly	 check accuracy of calibration 				
Continued			switch to manual/test mode where applicable				

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CRITERIA	ASSESSMENT	ASSESSOR	ASSESSMENT				
NUMBER	CRITERIA	GUIDANCE State one suitable action in	ACTIVITIES	A	В	C	D
Cont		the event of the control panel failing	 stop pesticide operation manual operation of controls if possible 				
Unit 235			Met ✓ Not Met X				
4.2							
Unit 235	Calibrate the sprayer and record relevant data	The candidate is required to calibrate the application equipment	Calibration may include the following:				
4.3		Note to the Assessor: Any appropriate method of calibration may be used					
		Select and record forward	May include:				
		speed	request suitable forward speed				
			accurate measurement of distance				
			 accurate measurement of time taken to cover distance 				
			• correct use of formula to determine forward speed				
		Calculate required output/volume rate	correct use of formula				
		Select appropriate nozzle	 use of manufacturer's operators handbook 				
		using manufacturer's	 use of nozzle manufacturer's literature 				
		literature	confirm requirements of product label				
		Set an aroting processing	 pressure as determined from nozzle chart 				_
		Set operating pressure	 pressure as determined non-nozzle chart pressurise/purge appropriate to the system 				
		Check nozzle outputs	 use measuring jug to check output from at least one nozzle 				
			compare with target output				
			vary pressure to make small adjustments				
			change nozzles if required				
		Candidate to record relevant	Calibration data may include:				
		calibration data	 identification number of spray train 				
			forward speed				
			application volume				
			nozzle fitted				
			operation pressure				
			flow rate				
			Met ✓ Not Met X				
Unit 235	Calculate the quantities of pesticide and water	Candidate to calculate quantities required for the	May include:			_	
0111 255	required for a specified	track length and bank width	 amount of water required for specified area amount of pesticide required for specified area 				
4.4	operation	specified and a full tank (if	 amount of pesticide required for specified area amount of pesticide required for full tank 				
		applicable)	Met ✓ Not Met X				
	Determine that there are	Candidate to measure and	To include all of the following:				
Unit 235	sufficient quantities of	add quantities required for	 correct selection and use of PPE (as required by 				
- 4	water and pesticide on	the area specified (if	the product label, COSHH/Risk Assessment)				
5.1	board for the task	applicable) or confirm that quantities are sufficient	suitable site selected				
			 fill following product recommendations and approved procedures 				
			 correct use of water supply 				
			accurate measurement of water				
			accurate measurement of pesticide				
			avoidance of spillage				
			 observance of pesticide manufacturer's instructions for mixing and agitation 				
			0 0				F
			Met ✓ Not Met X				Ш

NUMBER		ASSESSOR	ASSESSMENT	A	AND B	IDA ⁻	
	CRITERIA Demonstrate safe and	GUIDANCE Candidate to describe one	ACTIVITIES May include any of the following:	A	Б	ι C	-
Unit 235	accurate application	possible method of marking	 track markers 				
	procedures	out the site to achieve	use of GPS				
5.2		accurate application					
		Candidate to explain the	Explanation to include:				
		appropriate procedure to	 avoid contact with contaminated target 				
		follow when the sprayer	 mark the spot at which the sprayer emptied 				
		needs filling part way through an application	 refill sprayer 				
		an application	 continue spraying by accurately matching at the 				
			appropriate point				
		Candidate to explain the	Explanation to include:				_
		appropriate procedure to follow when a nozzle	 select and use appropriate PPE 				
		becomes blocked during	 care not to walk in contaminated target 				
		spraying	 clean or replace nozzle as appropriate 				
		The condidate is required to	To include:				
		The candidate is required to treat the area specified					
		demonstrating safe and	 correct angle/alignment according to the target and type of nozzle 				
		accurate application	 treatment area clearly identified 				
		procedures	 constant speed maintained 				
			 accurate switch on/off points 				
			 obstacles dealt with correctly (if applicable) 				
			 awareness of changing weather conditions and 				
			appropriate action taken (if applicable)				[
			Met ✓ Not Met X				
	Carry out all activities	Note to the Assessor:	To include:				
Unit 235	protecting human health	Assessor to be satisfied that	• prevention of personal injury and contamination				
5.0	and the environment	the candidate has carried out	through correct selection and use of PPE (as				
5.3		all activities protecting human health and the environment	required by the product information and/or COSHH/Risk Assessment)	_	_	_	
			 prevention of public/bystander contamination 				
			safe filling procedure				
			avoidance of spray drift				
			avoidance of off target application				
			 avoidance of under/over dosing target 				
			Met ✓ Not Met X				
	Complete a treatment	Candidate is required to	Met ✓ Not Met X Completion of the treatment record must be:				
Unit 235	Complete a treatment record	Candidate is required to complete a treatment record					
	•	complete a treatment record	Completion of the treatment record must be: accurate				
Unit 235 5.4	•	complete a treatment record Note to the Assessor: The	Completion of the treatment record must be: accurate legible (if handwritten)				
	•	complete a treatment recordNote to the Assessor: The treatment record must be	Completion of the treatment record must be: accurate				
	•	complete a treatment record Note to the Assessor: The	Completion of the treatment record must be: accurate legible (if handwritten)				
	•	complete a treatment record Note to the Assessor: The treatment record must be approved by the Assessor (or supplied by the Assessor if necessary)	Completion of the treatment record must be: • accurate • legible (if handwritten) Met ✓ Not Met X				
5.4	record Explain how to manage	complete a treatment record Note to the Assessor: The treatment record must be approved by the Assessor (or supplied by the Assessor if necessary) Candidate to explain one	Completion of the treatment record must be: accurate legible (if handwritten) Met ✓ Not Met X Explanation may include:				
	record Explain how to manage surplus pesticide and	complete a treatment record Note to the Assessor: The treatment record must be approved by the Assessor (or supplied by the Assessor if necessary) Candidate to explain one method of dealing with	Completion of the treatment record must be: • accurate • legible (if handwritten) Met ✓ Not Met X				
5.4 Unit 235	record Explain how to manage	complete a treatment record Note to the Assessor: The treatment record must be approved by the Assessor (or supplied by the Assessor if necessary) Candidate to explain one	Completion of the treatment record must be: accurate legible (if handwritten) Met ✓ Not Met X Explanation may include:				
5.4	record Explain how to manage surplus pesticide and	complete a treatment record Note to the Assessor: The treatment record must be approved by the Assessor (or supplied by the Assessor if necessary) Candidate to explain one method of dealing with surplus concentrate pesticide	Completion of the treatment record must be: • accurate • legible (if handwritten) Met ✓ Not Met X Explanation may include: • return to temporary mobile store • return to fixed store				
5.4 Unit 235	record Explain how to manage surplus pesticide and	complete a treatment record Note to the Assessor: The treatment record must be approved by the Assessor (or supplied by the Assessor if necessary) Candidate to explain one method of dealing with surplus concentrate pesticide Candidate to explain two	Completion of the treatment record must be: • accurate • legible (if handwritten) Met ✓ Not Met X Explanation may include: • return to temporary mobile store • return to fixed store Containers:				
5.4 Unit 235	record Explain how to manage surplus pesticide and	complete a treatment record Note to the Assessor: The treatment record must be approved by the Assessor (or supplied by the Assessor if necessary) Candidate to explain one method of dealing with surplus concentrate pesticide	Completion of the treatment record must be: • accurate • legible (if handwritten) Met ✓ Not Met X Explanation may include: • return to temporary mobile store • return to fixed store Containers: • triple rinsed (if applicable)				
5.4 Unit 235	record Explain how to manage surplus pesticide and	complete a treatment record Note to the Assessor: The treatment record must be approved by the Assessor (or supplied by the Assessor if necessary) Candidate to explain one method of dealing with surplus concentrate pesticide Candidate to explain two methods of dealing with	Completion of the treatment record must be: • accurate • legible (if handwritten) Met ✓ Not Met X Explanation may include: • return to temporary mobile store • return to fixed store Containers: • triple rinsed (if applicable) • placed in secure storage until disposal				
5.4 Unit 235	record Explain how to manage surplus pesticide and	complete a treatment record Note to the Assessor: The treatment record must be approved by the Assessor (or supplied by the Assessor if necessary) Candidate to explain one method of dealing with surplus concentrate pesticide Candidate to explain two methods of dealing with waste containers or	Completion of the treatment record must be: accurate legible (if handwritten) Met ✓ Not Met X Explanation may include: return to temporary mobile store return to fixed store Containers: triple rinsed (if applicable) placed in secure storage until disposal returned to supplier				
5.4 Unit 235	record Explain how to manage surplus pesticide and	complete a treatment record Note to the Assessor: The treatment record must be approved by the Assessor (or supplied by the Assessor if necessary) Candidate to explain one method of dealing with surplus concentrate pesticide Candidate to explain two methods of dealing with waste containers or	Completion of the treatment record must be: • accurate • legible (if handwritten) Met ✓ Not Met X Explanation may include: • return to temporary mobile store • return to fixed store Containers: • triple rinsed (if applicable) • placed in secure storage until disposal				
5.4 Unit 235	record Explain how to manage surplus pesticide and	complete a treatment record Note to the Assessor: The treatment record must be approved by the Assessor (or supplied by the Assessor if necessary) Candidate to explain one method of dealing with surplus concentrate pesticide Candidate to explain two methods of dealing with waste containers or	Completion of the treatment record must be: accurate legible (if handwritten) Met ✓ Not Met X Explanation may include: return to temporary mobile store return to fixed store Containers: triple rinsed (if applicable) placed in secure storage until disposal returned to supplier				
5.4 Unit 235	record Explain how to manage surplus pesticide and	complete a treatment record Note to the Assessor: The treatment record must be approved by the Assessor (or supplied by the Assessor if necessary) Candidate to explain one method of dealing with surplus concentrate pesticide Candidate to explain two methods of dealing with waste containers or	Completion of the treatment record must be: accurate legible (if handwritten) Met ✓ Not Met X Explanation may include: return to temporary mobile store return to fixed store Containers: triple rinsed (if applicable) placed in secure storage until disposal returned to supplier collected by a licensed waste disposal contractor				
5.4 Unit 235	record Explain how to manage surplus pesticide and	complete a treatment record Note to the Assessor: The treatment record must be approved by the Assessor (or supplied by the Assessor if necessary) Candidate to explain one method of dealing with surplus concentrate pesticide Candidate to explain two methods of dealing with waste containers or	Completion of the treatment record must be: accurate legible (if handwritten) Met ✓ Not Met X Explanation may include: return to temporary mobile store return to fixed store Containers: triple rinsed (if applicable) placed in secure storage until disposal returned to supplier collected by a licensed waste disposal contractor Packaging: thoroughly emptied				
5.4 Unit 235	record Explain how to manage surplus pesticide and	complete a treatment record Note to the Assessor: The treatment record must be approved by the Assessor (or supplied by the Assessor if necessary) Candidate to explain one method of dealing with surplus concentrate pesticide Candidate to explain two methods of dealing with waste containers or	Completion of the treatment record must be: accurate legible (if handwritten) Met ✓ Not Met X Explanation may include: return to temporary mobile store return to fixed store Containers: triple rinsed (if applicable) placed in secure storage until disposal returned to supplier collected by a licensed waste disposal contractor Packaging: thoroughly emptied placed in secure storage until disposal				
5.4 Unit 235	record Explain how to manage surplus pesticide and	complete a treatment record Note to the Assessor: The treatment record must be approved by the Assessor (or supplied by the Assessor if necessary) Candidate to explain one method of dealing with surplus concentrate pesticide Candidate to explain two methods of dealing with waste containers or	Completion of the treatment record must be: accurate legible (if handwritten) Met ✓ Not Met X Explanation may include: return to temporary mobile store return to fixed store Containers: triple rinsed (if applicable) placed in secure storage until disposal returned to supplier collected by a licensed waste disposal contractor Packaging: thoroughly emptied placed in secure storage until disposal				
5.4 Unit 235	record Explain how to manage surplus pesticide and	complete a treatment record Note to the Assessor: The treatment record must be approved by the Assessor (or supplied by the Assessor if necessary) Candidate to explain one method of dealing with surplus concentrate pesticide Candidate to explain two methods of dealing with waste containers or packaging Candidate to explain two	Completion of the treatment record must be: accurate legible (if handwritten) Met ✓ Not Met X Explanation may include: return to temporary mobile store return to fixed store Containers: triple rinsed (if applicable) placed in secure storage until disposal returned to supplier collected by a licensed waste disposal contractor Packaging: thoroughly emptied placed in secure storage until disposal				
5.4 Unit 235	record Explain how to manage surplus pesticide and	complete a treatment record Note to the Assessor: The treatment record must be approved by the Assessor (or supplied by the Assessor if necessary) Candidate to explain one method of dealing with surplus concentrate pesticide Candidate to explain two methods of dealing with waste containers or packaging Candidate to explain two methods of dealing with waste containers or packaging	Completion of the treatment record must be: accurate legible (if handwritten) Met ✓ Not Met X Explanation may include: return to temporary mobile store return to fixed store Containers: triple rinsed (if applicable) placed in secure storage until disposal returned to supplier collected by a licensed waste disposal contractor Packaging: thoroughly emptied placed in secure storage until disposal collected by a licensed waste disposal contractor Explanation may include: back on to target as long as it is below the				
5.4 Unit 235	record Explain how to manage surplus pesticide and	complete a treatment record Note to the Assessor: The treatment record must be approved by the Assessor (or supplied by the Assessor if necessary) Candidate to explain one method of dealing with surplus concentrate pesticide Candidate to explain two methods of dealing with waste containers or packaging Candidate to explain two	Completion of the treatment record must be: accurate legible (if handwritten) Met ✓ Not Met X Explanation may include: return to temporary mobile store return to fixed store Containers: triple rinsed (if applicable) placed in secure storage until disposal returned to supplier collected by a licensed waste disposal contractor Packaging: thoroughly emptied placed in secure storage until disposal collected by a licensed waste disposal contractor Explanation may include: back on to target as long as it is below the maximum dose rate				
5.4 Unit 235	record Explain how to manage surplus pesticide and	complete a treatment record Note to the Assessor: The treatment record must be approved by the Assessor (or supplied by the Assessor if necessary) Candidate to explain one method of dealing with surplus concentrate pesticide Candidate to explain two methods of dealing with waste containers or packaging Candidate to explain two methods of dealing with waste containers or packaging	Completion of the treatment record must be: accurate legible (if handwritten) Met ✓ Not Met X Explanation may include: return to temporary mobile store return to fixed store Containers: triple rinsed (if applicable) placed in secure storage until disposal returned to supplier collected by a licensed waste disposal contractor Packaging: thoroughly emptied placed in secure storage until disposal collected by a licensed waste disposal contractor Explanation may include: back on to target as long as it is below the maximum dose rate use on another approved target				
5.4 Unit 235	record Explain how to manage surplus pesticide and	complete a treatment record Note to the Assessor: The treatment record must be approved by the Assessor (or supplied by the Assessor if necessary) Candidate to explain one method of dealing with surplus concentrate pesticide Candidate to explain two methods of dealing with waste containers or packaging Candidate to explain two methods of dealing with waste containers or packaging	Completion of the treatment record must be: accurate legible (if handwritten) Met ✓ Not Met X Explanation may include: return to temporary mobile store return to fixed store Containers: triple rinsed (if applicable) placed in secure storage until disposal returned to supplier collected by a licensed waste disposal contractor Packaging: thoroughly emptied placed in secure storage until disposal collected by a licensed waste disposal contractor Explanation may include: back on to target as long as it is below the maximum dose rate				

CRITERIA	ASSESSMENT	ASSESSOR	ASSESSMENT	C	AND	IDA'	ΓE
NUMBER	CRITERIA	GUIDANCE	ACTIVITIES	Α	В	С	D
Unit 235	Explain how to clean and decontaminate the applicator and prime mover	Candidate to explain four factors that need to be considered when cleaning the	May include: • select and use correct PPE • selection of an appropriate site for cleaning the				
6.2	(if applicable)	sprayer and, if applicable, the prime mover	application equipment				
			 triple rinse the applicator following product information recommendations 				
			 through flushing of system 				
			 safe disposal of contaminated washings in an appropriate manner following good practice 				
			 safe procedures followed 				
			Met ✔ Not Met X				
	Describe the storage	Candidate to describe three	May include:				
Unit 235	requirements for the	factors to consider when	de-commissioning				
6.3	applicator	storing the sprayer	 ensure the application equipment is clean and dry 				
0.5			 inspect for wear or damage 				
			 repair or notify supervisor if not within operators level of responsibility and ability 				
			Iubricate if required				
			 frost protection measures implemented 				
			• store in a secure area				
			Met ✔ Not Met X				

Unit 6 – Operating 'any other' Equipment for Applying Pesticides

Candidate	Α	Name:		Date:		Start Time:	Dur	uration:					
Candidate	B	Name:		Date:		Start Time:	Dur	atior	ı :				
Candidate	ndidate C Name:			Date: Start Ti		Start Time:	Dur	uration:					
Candidate	D	Name:		Date:		Start Time:	Dur	ration:					
CRITERIA	RIA ASSESSMENT ASSESSOR			ASSESSMENT			С	IDA	TE				
NUMBER		CRITERIA	GUIDANCE			ACTIVITIES		Α	В	С	D		
Unit 236 1.1	requ app sele	cribe the legal urements relating to lying pesticides using ected application ipment	Candidate to describe two operator's obligations in terms of legal requirements	•	complies with lea comply with The (Sustainable Use the operator mus	ds are in place and equipr gal requirements Plant Protection Products a) Regulations 2012 st hold the appropriate he equipment they are usi	;						
						Met√ No	ot Met X						
Unit 236 1.2	pes sele equ	cribe how to apply ticides safely using ected application ipment following ustry best practice	Candidate to describe on operator safety regulation i terms of using selected application equipment	- ,	adopt industry b be aware of any	ticide Codes of Practice est practice safety implications impos sessment and comply wit							
						Met √ No	t Met X						
Unit 236 2.1	env	ntify risks to the ironment	Candidate to identify all relevant risks to the environment for the application site	• • • • • • • • • • • • • • • • • • • •	y include: ground condition water courses drains boreholes wildlife non-target plants sensitive crops/a hedgerows housing public access other risks partic	s reas ular to the site Met √ No	t Met X						
Unit 236 2.2		lain how to minimise s to the environment	Candidate to explain how minimise the risks identifie in 2.1 Candidate to state the reason for minimising spray drift or off target application Candidate to check and	d •	check and maint avoid spray drift avoid off target a observe buffer z comply with LER inform neighbour erect warning sig use an appropria environmental in appropriate timir operate within an avoidance of cor environment	ones AP requirements s ns te pesticide (minimal npact)	the						
Continued			comment on wind speed a direction		signs wind direction								

CRITERIA	ASSESSMENT	ASSESSOR	ASSESSMENT		AND		
NUMBER	CRITERIA	GUIDANCE	ACTIVITIES	Α	В	С	D
Cont		Candidate to state five factors that may affect spray	May include: wind speed and direction				
		drift	wind speed and directionnozzle type and size				
Unit 236			 nozzie type and size pressure 				
2.2			 forward speed 				
2.2			 nozzle height 				
			defective equipment				
			 suction effect of wind 				
			Met ✓ Not Met X				
	Read product information	The candidate is required to	May include the following:				
Unit 236	Read product information	read and interpret the	 product name 				
	Interpret product	information on a product label	 active substance(s) (ingredient(s)) 				
3.1	information	and provide relevant	• active substance(s) (ingredient(s))				
		information as requested by the Assessor	Important information:				
3.2			field of use				
		Note to the Assessor: A	crop/target				
		product label is required. It is expected that the candidate	maximum individual dose				
		will provide the product label	maximum total dose				
			 maximum number of treatments 				
		The label provided must be				_	_
		for a currently approved product and appropriate to	specific product precautions/warnings				
		the candidates normal work	operator protection				
		situation	environmental protection				
		Note to the Candidate	restrictions on use				
		(Assessor also to note): It is	Crop specific information:				
		acceptable for key	crop/target				
		information on the label to be highlighted for use during the	dose rate				
		assessment	water volume				
			• timing				
			Mixing and spraying:				
			 filling 				
			 reduced volume applications (if applicable) 				
			 recommended nozzles 				
			 recommended nezzles recommended pressure 				
			 spray quality 				
			additional label information				
			compatibility				
			Met ✓ Not Met X				
	Identify the components &	Candidate to identify all	May include:				
Unit 236	controls on the equipment	components and controls	• tank				
		relating to the applicator	 lid 				
4.1		being used for the assessment	filters				
		นออนออกานนาใ	pipe work				
			• pump				
			pressure control				
			nozzles				
			pressure gauge				
			• connections				
			• seals				
			metering devices				
			mechanical/electrical controls				
			programming controls				
		Identify and explain the use	May include:				
		Identify and explain the use of two types of nozzle, one of	May include:	_	_	_	_
		which could be that intended	 flat fan – fine/medium/coarse spray ais isclusion – medium/coarse spray low drift 				
		for use	 air inclusion – medium/coarse spray, low-drift 				
		1	 cone – fine spray, good coverage 				

CRITERIA NUMBER	ASSESSMENT CRITERIA	ASSESSOR GUIDANCE	ASSESSMENT ACTIVITIES	C A		DIDA ⁻	TE D
NUMBER	CRITERIA Carry out pre use checks	Candidate to carry out all	ACTIVITIES May include:	A	P	C	
Unit 236	to the prime mover (if	pre-use checks relevant to	 integrity of power source 				
	applicable)	the prime mover being used	fluid levels				
4.2		for the assessment (if applicable)	fail-safe systems				
		applicable)					
			Met ✓ Not Met X				
Unit 236	Carry out pre-use checks to the selected application	Candidate to carry out all pre-use and operational	May include: • metering & delivery systems				
01111 200	equipment	checks to the selected					
4.3		application equipment	 drive systems condition & tension of belts 				
		Check security of attachment	 boom suspension/break-back devices (if 				
		of applicator mechanisms	applicable)				
			 security of attachment to prime mover 				
			Iubrication of components				
			checking for leaks under pressure				
			 any problems identified to be rectified if within 		_	_	
			operators level of responsibility and ability				
			Met ✓ Not Met X				
	Calibrate the selected	Candidate is required to	May include:	1			
Unit 236	application equipment and	calibrate the selected	accurate measurements				
4.4	record relevant data	applicator and record relevant data	accurate timings				
4.4			accurate calculations				
		Note to the Assessor: Any appropriate method of	correct use of formulae				
		calibration may be used					
		State two pieces of	Calibration data may include:				
		calibration data that should	equipment settings used				
		be recorded	 product used for calibration 				
			application rate achieved				
			Met ✓ Not Met X				
	Measure the area/volume	Candidate to measure the	Must include:	\vdash			
Unit 236	to be treated	area/volume, which should be	accurate measurements				
		typical of the candidate's					
4.5		normal work. The Assessor may assist under direction of	Met ✓ Not Met X				
		the candidate					
	Calculate the area/	Candidate to calculate the	Must include:	-			
Unit 236	volume to be	area/volume to be treated	accurate calculations				
4.6	treated		Met √ Not Met X				
4.0	Calculate the quantities of	Candidate to calculate	May include:				
Unit 236	pesticide and water	quantities required for the	 amount of water required for specified 				
	required for a specified	area/volume calculated in 4.6	area/volume				
4.7	area/volume		 amount of pesticide required for specified 				
			area/volume				
			Met ✓ Not Met X				
Unit 236	Measure the required	Candidate to measure and	To include all of the following:				
01111 230	quantities and add to the selected applicator	add quantities required for the area/volume specified in	 correct selection and use of PPE/RPE (as required by the product label, COSHH/Risk 				
5.1		4.5	Assessment)				
		Noto: This may be a	suitable site selected				
		Note: This may be a simulated pesticide	fill following product recommendations and				1
		product	approved procedures				
			correct use of water supply				
			accurate measurement of water				
			accurate measurement of pesticide				
			avoidance of spillage or				
			attach pesticide container				
			Met ✓ Not Met X		\square		

	ASSESSMENT	ASSESSOR	ASSESSMENT			IDA1	
NUMBER	CRITERIA Demonstrate safe and	GUIDANCE Candidate to apply pesticide	ACTIVITIES To include:	Α	В		D
Unit 236	accurate application	to treat a specified	 treatment area clearly identified 				
	procedures	area/volume appropriate to	 constant speed maintained 				
5.2		the candidates normal work situation and sufficient to	 accurate switch on/off points 				
		demonstrate safe and	 accurate matching of bouts (if applicable) 				
		accurate application	 obstacles dealt with correctly (if applicable) 				
		procedures	 area/volume treated minimising overlaps and misses (if applicable) 				
			 awareness of changing climatic conditions and appropriate action taken (if applicable) 				
			Met ✓ Not Met X				
	Carry out all activities	Note to the Assessor:	To include:				
Unit 236 5.3	protecting human health and the environment	Assessor to be satisfied that the candidate has carried out all activities protecting human health and the environment	 prevention of personal injury and contamination through correct selection and use of PPE/RPE (as required by the product information and/or COSHH/Risk Assessment) 				
		environment	 prevention of public/bystander contamination 				
			safe filling procedure				
			avoidance of spray drift				
			 avoidance of off target application 				
			avoidance of over/under dosing crop/target/plant	_	_	_	_
			material				
			Met ✓ Not Met X				
Unit 236	Complete a treatment record	Candidate is required to complete a treatment record	Completion of the treatment record must be: • accurate				
			 legible (if handwritten) 				
5.4		Note to the Assessor: The	o (<i>, ,</i>				
		treatment record must be approved by the Assessor (or supplied by the Assessor if necessary)	Met ✓ Not Met X				
	Explain how to manage	Candidate to explain one	Explanation may include:				
Unit 236	surplus pesticide and	method of dealing with	 return to temporary mobile store 				
6.1	dispose of waste material	surplus concentrate pesticide	return to fixed store				
0.1		Candidate to explain two	Containers:				
		methods of dealing with	triple rinsed				
		waste containers or	 placed in secure storage until disposal 				
		packaging	 returned to supplier 				
			 collected by a licensed waste disposal contractor 				
			Packaging:				
			 thoroughly emptied 				
			 placed in secure storage until disposal 				
			0, 1				
		Candidate to explain two	 placed in secure storage until disposal collected by a licensed waste disposal contractor 				
		Candidate to explain two methods of dealing with	 placed in secure storage until disposal collected by a licensed waste disposal contractor Explanation may include: 				
			 placed in secure storage until disposal collected by a licensed waste disposal contractor 				
		methods of dealing with	 placed in secure storage until disposal collected by a licensed waste disposal contractor Explanation may include: back on to target as long as it is below the 				
		methods of dealing with	 placed in secure storage until disposal collected by a licensed waste disposal contractor Explanation may include: back on to target as long as it is below the maximum dose rate 				
		methods of dealing with	 placed in secure storage until disposal collected by a licensed waste disposal contractor Explanation may include: back on to target as long as it is below the maximum dose rate use on another approved crop/target treated by specialist treatment facility on site (e.g. a lined bio bed) 				
		methods of dealing with	 placed in secure storage until disposal collected by a licensed waste disposal contractor Explanation may include: back on to target as long as it is below the maximum dose rate use on another approved crop/target treated by specialist treatment facility on site (e.g. 				
		methods of dealing with	 placed in secure storage until disposal collected by a licensed waste disposal contractor Explanation may include: back on to target as long as it is below the maximum dose rate use on another approved crop/target treated by specialist treatment facility on site (e.g. a lined bio bed) 				
Unit 236	Explain how to clean and	methods of dealing with surplus dilute pesticides Candidate to explain four	 placed in secure storage until disposal collected by a licensed waste disposal contractor Explanation may include: back on to target as long as it is below the maximum dose rate use on another approved crop/target treated by specialist treatment facility on site (e.g. a lined bio bed) collected by a licensed waste disposal contractor Met ✓ Not Met X May include: 				
Unit 236	decontaminate the selected application	methods of dealing with surplus dilute pesticides Candidate to explain four factors that need to be considered when cleaning the	 placed in secure storage until disposal collected by a licensed waste disposal contractor Explanation may include: back on to target as long as it is below the maximum dose rate use on another approved crop/target treated by specialist treatment facility on site (e.g. a lined bio bed) collected by a licensed waste disposal contractor Met ✓ Not Met X May include: select and use correct PPE/RPE selection of an appropriate site for cleaning the 				
Unit 236 6.2	decontaminate the	methods of dealing with surplus dilute pesticides Candidate to explain four factors that need to be	 placed in secure storage until disposal collected by a licensed waste disposal contractor Explanation may include: back on to target as long as it is below the maximum dose rate use on another approved crop/target treated by specialist treatment facility on site (e.g. a lined bio bed) collected by a licensed waste disposal contractor Met ✓ Not Met X May include: select and use correct PPE/RPE selection of an appropriate site for cleaning the application equipment 				
	decontaminate the selected application	methods of dealing with surplus dilute pesticides Candidate to explain four factors that need to be considered when cleaning the application equipment and, if	 placed in secure storage until disposal collected by a licensed waste disposal contractor Explanation may include: back on to target as long as it is below the maximum dose rate use on another approved crop/target treated by specialist treatment facility on site (e.g. a lined bio bed) collected by a licensed waste disposal contractor Met ✓ Not Met X May include: select and use correct PPE/RPE selection of an appropriate site for cleaning the application equipment triple rinse the applicator following product information recommendations 				
	decontaminate the selected application	methods of dealing with surplus dilute pesticides Candidate to explain four factors that need to be considered when cleaning the application equipment and, if	 placed in secure storage until disposal collected by a licensed waste disposal contractor Explanation may include: back on to target as long as it is below the maximum dose rate use on another approved crop/target treated by specialist treatment facility on site (e.g. a lined bio bed) collected by a licensed waste disposal contractor Met ✓ Not Met X May include: select and use correct PPE/RPE selection of an appropriate site for cleaning the application equipment triple rinse the applicator following product information recommendations through flushing of system 				
	decontaminate the selected application	methods of dealing with surplus dilute pesticides Candidate to explain four factors that need to be considered when cleaning the application equipment and, if	 placed in secure storage until disposal collected by a licensed waste disposal contractor Explanation may include: back on to target as long as it is below the maximum dose rate use on another approved crop/target treated by specialist treatment facility on site (e.g. a lined bio bed) collected by a licensed waste disposal contractor Met ✓ Not Met X May include: select and use correct PPE/RPE selection of an appropriate site for cleaning the application equipment triple rinse the applicator following product information recommendations through flushing of system safe disposal of contaminated washings in an appropriate manner following good practice 				
	decontaminate the selected application	methods of dealing with surplus dilute pesticides Candidate to explain four factors that need to be considered when cleaning the application equipment and, if	 placed in secure storage until disposal collected by a licensed waste disposal contractor Explanation may include: back on to target as long as it is below the maximum dose rate use on another approved crop/target treated by specialist treatment facility on site (e.g. a lined bio bed) collected by a licensed waste disposal contractor Met ✓ Not Met X May include: select and use correct PPE/RPE selection of an appropriate site for cleaning the application equipment triple rinse the applicator following product information recommendations through flushing of system safe disposal of contaminated washings in an 				

CRITERIA	ASSESSMENT	ASSESSOR	ASSESSMENT	C	AND	IDA ⁻	ΓE
NUMBER	CRITERIA	GUIDANCE	ACTIVITIES	Α	В	С	D
	Describe the storage	Candidate to describe three	May include:				
Unit 236	requirements for the	factors to consider prior to	de-pressurisation				
6.3	selected application equipment	storing the selected application equipment	• ensure the application equipment is clean and dry				
0.3	equipment	application equipment	 inspect for wear or damage 				
			repair or notify supervisor if not within operators				
			level of responsibility and ability				
			Iubricate if required				
			 frost protection measures implemented 				
			 nozzles and filters removed prior to freezing 				
			conditions				
			 store in a secure area 				
			 isolation of any electrical controls 				
			 store under cover and out of direct sunlight 				
			Met ✓ Not Met X				

Candidate A	Candidate has met all of the assessment criteria	Tick ✓	The Candidate has not met all of the assessment criteria; (state reason(s))	Tick ✓					
	Signed:	Date:		•					
Candidate B	Candidate has met all of the assessment criteria	Tick ✓	The Candidate has not met all of the assessment criteria; (state reason(s))	Tick ✓					
	Signed:	Date:							
Candidate C	Candidate has met all of the assessment criteria	Tick ✓	The Candidate has not met all of the assessment criteria; (state reason(s))	Tick ✓					
	Signed:	Date:							
Candidate D	Candidate has met all of the assessment criteria	Tick ✓	The Candidate has not met all of the assessment criteria; (state <i>reason(s)</i>)	Tick ✓					
	Signed:	Date:							
For	For use by Internal Verifier ONLY if the assessment process was internally verified								

(Internal Verifier to complete ONE of the boxes below)

I observed an assessment process taking place and I am satisfied that the assessment was conducted in line with the qualification requirements.	Tick ✓
I observed an assessment process taking place. The following were noted as areas of concern.	Tick ✓
Signed: Date:	